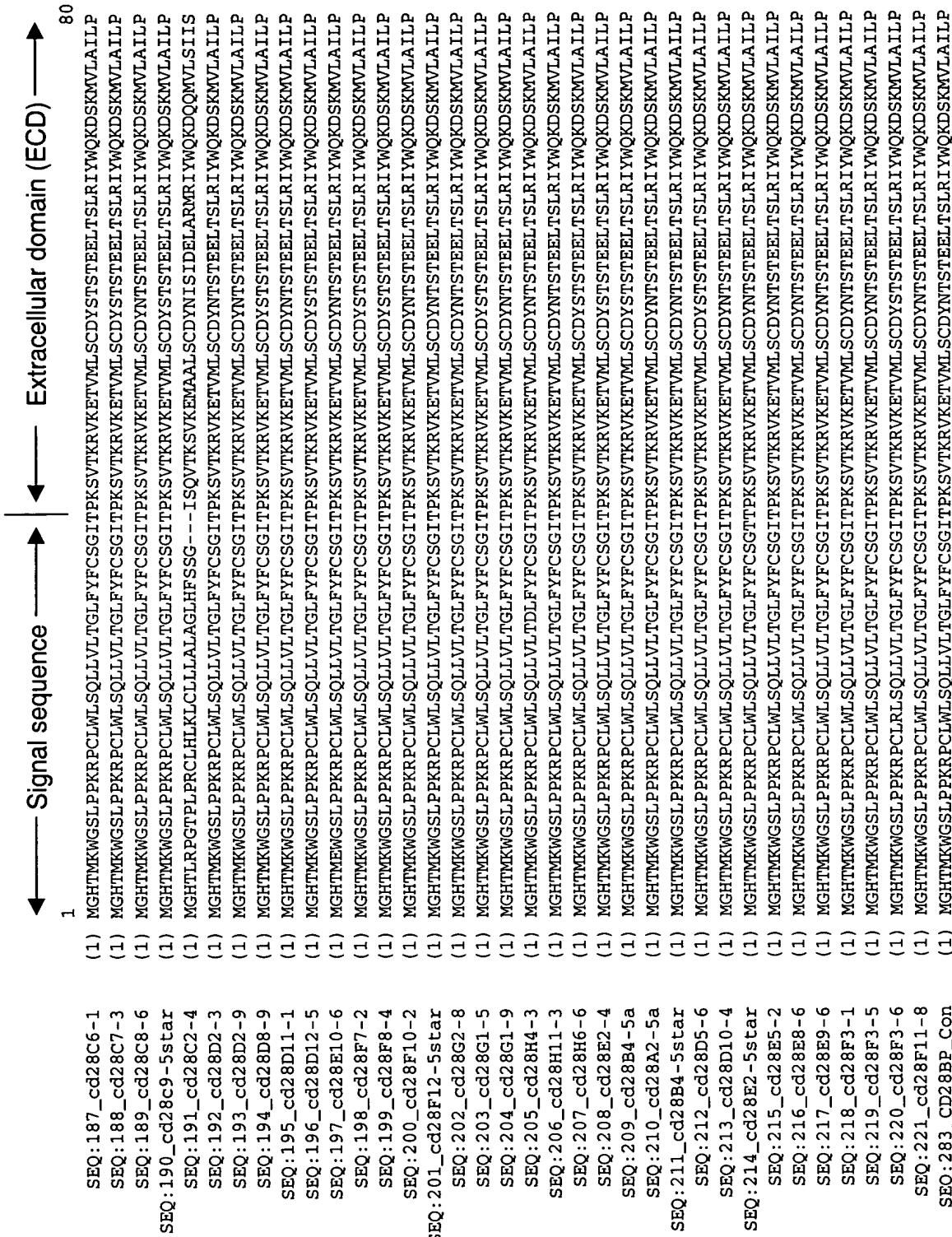


Fig. 1

SEQ:278_Human_B7-1	1	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:048_R1_Clone_71	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:049_R1_Clone_84	(1)	MGHTLRLPGTPLLPRCLHLKLCLLILAGLHFSSG---ISQVTKSVKEMALSCDYNISIDELARMR1YQKDQDSKMYLAILP
SEQ:050_R1_Clone_118	(1)	MGHTLRLPGTPLLPRCLHLKLCLLILAGLHFSSG---ISQVTKSVKEMALSCDYNISIDELARMR1YQKDQDSKMYLAILP
SEQ:051_R1_Clone_126	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:052_R2_CD28BP-1	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:053_R2_CD28BP-2	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:054_R2_CD28BP-3	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:055_R2_CD28BP-4	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:056_R2_CD28BP-5	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:057_R2_CD28BP-6	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:058_R2_CD28BP-7	(1)	MGHTMKWRSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:059_R2_CD28BP-8	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:060_R2_CD28BP-9	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:061_R2_CD28BP-10	(1)	MGHTMKWRSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:062_R2_CD28BP-11	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:063_R2_CD28BP-12	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:064_R2_CD28BP-13	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:065_R2_CD28BP-14	(1)	MGHTLRLPGTPLLPRCLHLKLCLLILAGLHFSSG---ISQVTKSVKEMALSCDYNISIDELARMR1YQKDQDSKMYLAILP
SEQ:066_R2_CD28BP-15	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:067_R2_CD28BP-16	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:068_R2_CD28BP-17	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:174_cd28a12-5	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:175_cd28a4-5star	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:176_cd28a4-9	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:177_cd28a6-9	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:178_cd28a6-1	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:179_cd28a8-4	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:180_cd28a8-6	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:181_cd28b2-8	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:182_cd28b4-3	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:183_cd28b6-3	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:184_cd28b6-6	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:185_cd28b8-5star	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP
SEQ:186_cd28c11-5	(1)	MGHTMKWGSLLPPKRPCLWLSQLVLTLGLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELTSRLIYQKDQDSKMYLAILP

Fig. 2A



81

SEQ:278_Human_B7-1 (79) GDWVWPEYKNRTIFDITNNLSIVILRRPSDEGTYCCVVLK-YERDAFKREHAAEVTLSTVKADFPTPSISDEIPTSNI

Extracellular domain (ECD)

160

SEQ:048_R1_Clone_71 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVIQKPVLKGAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:049_R1_Clone_84 (78) GQVEWVPEYKNRTFPDIIINNLISMLALRLSDKGTYTCVYQK-NENGSSRREHLSVTLSIRADSPVPTTIDLGHAPAPNV
 SEQ:050_R1_Clone_118 (78) GQVEWVPEYKNRTFPDIIINNLISMLALRLSDKGTYTCVYQK-NENGSSRREHLSVTLSIRADFPVPTTIDLGHAPAPNV
 SEQ:051_R1_Clone_126 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPDLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:052_R2_CD28BP-1 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPDLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:053_R2_CD28BP-2 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPDLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:054_R2_CD28BP-3 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPDLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:055_R2_CD28BP-4 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPDLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:056_R2_CD28BP-5 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:057_R2_CD28BP-6 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:058_R2_CD28BP-7 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:059_R2_CD28BP-8 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:060_R2_CD28BP-9 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:061_R2_CD28BP-10 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:062_R2_CD28BP-11 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:063_R2_CD28BP-12 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:064_R2_CD28BP-13 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:065_R2_CD28BP-14 (78) GQVEWVPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:066_R2_CD28BP-15 (81) GKVQWPEYKNRTITDMNDNPRIVILALRPSDSGTYTCVYQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:067_R2_CD28BP-16 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:068_R2_CD28BP-17 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:174_cd28A12-5 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:175_cd28A4-5star (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:176_cd28A4-9 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:177_cd28A6-9 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:178_cd28A6-1 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:179_cd28A8-4 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:180_cd28A8-6 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTIVTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:181_cd28B2-8 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:182_cd28B4-3 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:183_cd28B6-3 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:184_cd28B6-6 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:185_cd28B8-5star (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI
 SEQ:186_cd28c11-5 (81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDKGTYTCVQKPVLKAYKLEHLSAVRLMIRADFPVPTTIDLGNPSPNI

Fig. 2C

	81	160
SEQ:187_cd28C6-1	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:188_cd28C7-3	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:189_cd28C8-6	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:190_cd28C9-5star	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:191_cd28C2-4	(78) GOVEWMPPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKPEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:192_cd28D2-3	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:193_cd28D2-9	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:194_cd28D8-9	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:195_cd28D11-1	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:196_cd28D12-5	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:197_cd28E10-6	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:198_cd28F7-2	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:199_cd28F8-4	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:200_cd28F10-2	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:201_cc28F12-5star	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:202_cd28G2-8	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:203_cd28G1-5	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:204_cd28G1-9	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:205_cd28H4-3	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:206_cd28H11-3	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:207_cd28H6-6	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:208_cd28E2-4	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:209_cd28B4-5a	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:210_cd28A2-5a	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:211_cd28B4_5star	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:212_cd28D5-6	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:213_cd28D10-4	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:214_cd28E2-5star	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:215_cd28E5-2	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:216_cd28E8-6	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:217_cd28E9-6	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:218_cd28F3-1	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:219_cd28F3-5	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:220_cd28F3-6	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:221_cd28F11-8	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	
SEQ:283_CD28BP_Con	(81) GKVQWPEYKNRTITDMNDNPRIVILALRLSDSGTYTCVQPKVPLKGAYKLEHLASVRLMIRADFPFPVPTINDLGNPSPNI	

Fig. 2D

SEQ:278_Human_B7-1	161	RRRICSTS...TQFVQESKPT
SEQ:048_R1_Clone_71	(161)	RRRICSTS...TQFVQESKPT
SEQ:049_R1_Clone_84	(157)	KRIRCSASGGFP...PWSKPQEQ
SEQ:050_R1_Clone_118	(157)	KRIRCSASGGFP...PWSKPQEQ
SEQ:051_R1_Clone_126	(161)	RRRICSTS...TQFVQESKPT
SEQ:052_R2_CD28BP-1	(161)	RRRICSTS...TQFVQESKPT
SEQ:053_R2_CD28BP-2	(161)	RRRICSTS...TQFVQESKPT
SEQ:054_R2_CD28BP-3	(161)	RRRICSTS...TQFVQESKPT
SEQ:055_R2_CD28BP-4	(161)	RRRICSTS...TQFVQESKPT
SEQ:056_R2_CD28BP-5	(161)	RRRICSTS...TQFVQESKPT
SEQ:057_R2_CD28BP-6	(161)	RRRICSTS...TQFVQESKPT
SEQ:058_R2_CD28BP-7	(161)	RRRICSTS...TQFVQESKPT
SEQ:059_R2_CD28BP-8	(161)	KRIRCSASGGFP...PWSKPQEQ
SEQ:060_R2_CD28BP-9	(161)	RRRICSTS...TQFVQESKPT
SEQ:061_R2_CD28BP-10	(161)	RRRICSTS...TQFVQESKPT
SEQ:062_R2_CD28BP-11	(160)	KRIRCSASGGFP...PWSKPQEQ
SEQ:063_R2_CD28BP-12	(161)	RRRICSTS...TQFVQESKPT
SEQ:064_R2_CD28BP-13	(161)	RRRICSTS...TQFVQESKPT
SEQ:065_R2_CD28BP-14	(158)	RRRICSTS...TQFVQESKPT
SEQ:066_R2_CD28BP-15	(161)	RRRICSTS...TQFVQESKPT
SEQ:067_R2_CD28BP-16	(161)	RRRICSTS...TQFVQESKPT
SEQ:068_R2_CD28BP-17	(160)	KRIRCSASGGDFP...PWSKPQEQ
SEQ:174_cd28A12-5	(161)	RRRICSTS...TQFVQESKPT
SEQ:175_cd28A4-5star	(161)	RRRICSTS...TQFVQESKPT
SEQ:176_cd28A4-9	(161)	RRRICSTS...TQFVQESKPT
SEQ:177_cd28A6-9	(161)	RRRICSTS...TQFVQESKPT
SEQ:178_cd28A6-1	(161)	RRRICSTS...TQFVQESKPT
SEQ:179_cd28A8-4	(161)	RRRICSTS...TQFVQESKPT
SEQ:180_cd28A8-6	(160)	KRIRCSASGGFP...PWSKPQEQ
SEQ:181_cd28B2-8	(161)	RRRICSTS...TQFVQESKPT
SEQ:182_cd28B4-3	(161)	RRRICSTS...TQFVQESKPT
SEQ:183_cd28B6-3	(161)	RRRICSTS...TQFVQESKPT
SEQ:184_cd28B6-6	(161)	KRIRCSASGGFP...PWSKPQEQ
SEQ:185_cd28B8-5star	(161)	RRRICSTS...TQFVQESKPT
SEQ:186_cd28C11-5	(161)	RRRICSTS...TQFVQESKPT

Fig. 2E

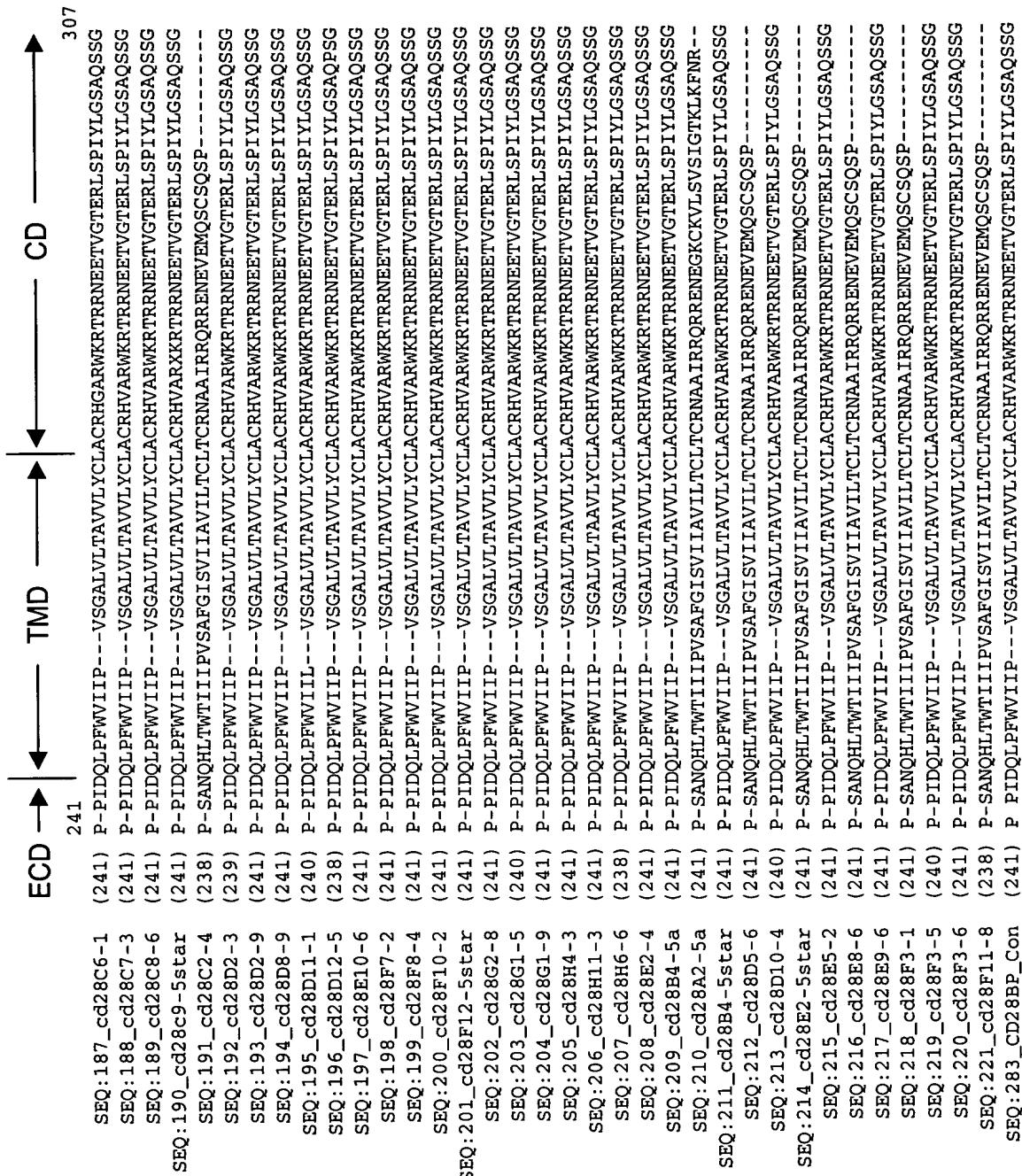
		240
SEQ:187_cd28C6-1	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:188_cd28C7-3	(161) KIRICSAASGDFPEPLAMMEDGEELNNAVNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:189_cd28C8-6	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:190_cd28C9-5star	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:191_cd28C2-4	(158) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISFLCLVKYGDLTYSQTFYQESKPT	
SEQ:192_cd28D2-3	(159) RRLICSTSGGFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:193_cd28D2-9	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:194_cd28D8-9	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:195_cd28D11-1	(160) KIRICSAASGDFPEPLAMMEDGEELNNAVNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:196_cd28D12-5	(161) KIRICSAASGDFPEPLAMMEDGEELNNAVNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:197_cd28E10-6	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:198_cd28F7-2	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:199_cd28F8-4	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:200_cd28F10-2	(161) KIRICSAASGDFPEPLAMMEDGEELNNAVNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:201_cd28F12-5star	(161) KIRICSAASGDFPEPLAMMEDGEELNNAVNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:202_cd28G2-8	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:203_cd28G1-5	(160) KIRICSAASGGFPEPLAMMEDGEELNNAVNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:204_cd28G1-9	(161) KIRICSAASGGFPEPLAMMEDGEELNNAVNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:205_cd28H4-3	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:206_cd28H11-3	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:207_cd28H6-6	(161) RRLICS--GFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:208_cd28E2-4	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:209_cd28B4-5a	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTVSDPDTELYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:210_cd28A2-5a	(161) KIRICSAASGGFPEPLAMMEDGEELNNAVNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKPT	
SEQ:211_cd28B4-5star	(161) KIRICSAASGGFPEPLAMMEDGEELNNAVNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:212_cd28D5-6	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:213_cd28D10-4	(160) KIRICSAASGGFPEPLAMMEDGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:214_cd28E2-5star	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:215_cd28E5-2	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:216_cd28E8-6	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:217_cd28E9-6	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:218_cd28F3-1	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:219_cd28F3-5	(160) KIRICSAASGGFPEPLAMMEDGEELNATNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:220_cd28F3-6	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:221_cd28F11-8	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTLSQDPETKLYMISSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	
SEQ:283_CD28BP_Con	(161) RRLICSTSGGFPRPHLYWLENGEELNATNTTVQDQDTELYVSSELDENVNNHISIVCLIKYGELSVSQIFFPWSKPQKQE	

Fig. 2F

SEQ:278_Human_B7-1	(238) HFPDNLLPSWAITL-----ISWNGIFVICCLTYCAFPRCERRRNNE-RURRESVRV-----	241
SEQ: 048_R1_Clone_71	(241) P-SANQHLTWTTIIIPVSAGFISVTLIAVILTCRCAAIAIRQRRENEVEMQSCSQSP-----	
SEQ: 049_R1_Clone_84	(237) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 050_R1_Clone_118	(237) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 051_R1_Clone_126	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 052_R2_CD28BP-1	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 053_R2_CD28BP-2	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 054_R2_CD28BP-3	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 055_R2_CD28BP-4	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 056_R2_CD28BP-5	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 057_R2_CD28BP-6	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 058_R2_CD28BP-7	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 059_R2_CD28BP-8	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 060_R2_CD28BP-9	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 061_R2_CD28BP-10	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 062_R2_CD28BP-11	(240) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 063_R2_CD28BP-12	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 064_R2_CD28BP-13	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 065_R2_CD28BP-14	(238) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 066_R2_CD28BP-15	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 067_R2_CD28BP-16	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 068_R2_CD28BP-17	(240) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 174_cd28A12-5	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 175_cd28A4-5star	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 176_cd28A4-9	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 177_cd28A6-9	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 178_cd28A6-1	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 179_cd28A8-4	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 180_cd28A8-6	(240) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 181_cd28B2-8	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 182_cd28B4-3	(241) P-SANQHLTWTTIIIPVSAGFISVTLIAVILTCRCAAIAIRQRRENEVEMQSCSQSP-----	
SEQ: 183_cd28B6-3	(241) P-SANQHLTWTTIIIPVSAGFISVTLIAVILTCRCAAIAIRQRRENEVEMQSCSQSP-----	
SEQ: 184_cd28B6-6	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 185_cd28B8-5star	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	
SEQ: 186_cd28c11-5	(241) P-PIDQLPFWVIIIP---VSGALVLTAVVLYCLACRHVARWKTRRNNEETVGTERLSPFIYLGSAQSSG	

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Fig. 2G



SEQ: 278_Human_B7-1	1	MGHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 069_R1_CTLA4BP-5	(1)	MGHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 070_R1_CTLA4BP-7	(1)	MGYTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 071_R1_CTLA4BP-11	(1)	MSHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 072_R1_CTLA4BP-13	(1)	MGHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 073_R1_CTLA4BP-27	(1)	MSHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 074_R2_CTLA4BP-5x2-10c	(1)	MGHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 075_R2_CTLA4BP-5x2-11d	(1)	MSHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 076_R2_CTLA4BP-5x2-12F	(1)	MGHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 077_R2_CTLA4BP-5x2-2g	(1)	MGHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 078_R2_CTLA4BP-5x2-3c	(1)	MGYTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 079_R2_CTLA4BP-5x2-4c	(1)	MSHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 080_R2_CTLA4BP-5x2-7b	(1)	MGHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 081_R2_CTLA4BP-5x2-8c	(1)	MSHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 082_R2_CTLA4BP-5x3-10e	(1)	MGYTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 083_R2_CTLA4BP-5x3-11b	(1)	MSHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 084_R2_CTLA4BP-5x3-6f	(1)	MGHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 085_R2_CTLA4BP-5x4-11d	(1)	MGHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 086_R2_CTLA4BP-5x4-12c	(1)	MGHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 087_R2_CTLA4BP-5x4-1f	(1)	MGHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 088_R2_CTLA4BP-5x5-2e	(1)	MGHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 089_R2_CTLA4BP-5x5-6e	(1)	MGHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 090_R2_CTLA4BP-5x6-9d	(1)	MSHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 091_R2_CTLA4BP-5x8-1f	(1)	MGHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 092_R2_CTLA4BP-5x9-12c	(1)	MGHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 222_ct1a5x9d10	(1)	MSHTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 223_ct1a5x6f6	(1)	MGYTRRQGTPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 224_ct1a5x5h12	(1)	MGYTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD
SEQ: 225_ct1a5x5c10	(1)	MSHTRRQGSPSKCPYLVFFQLLVLAGLSHFCSGVIIHVTKEYKEVATLSCGHNVSVEELAQTRIYQKEKKMVLTMMSGD

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Fig. 3A

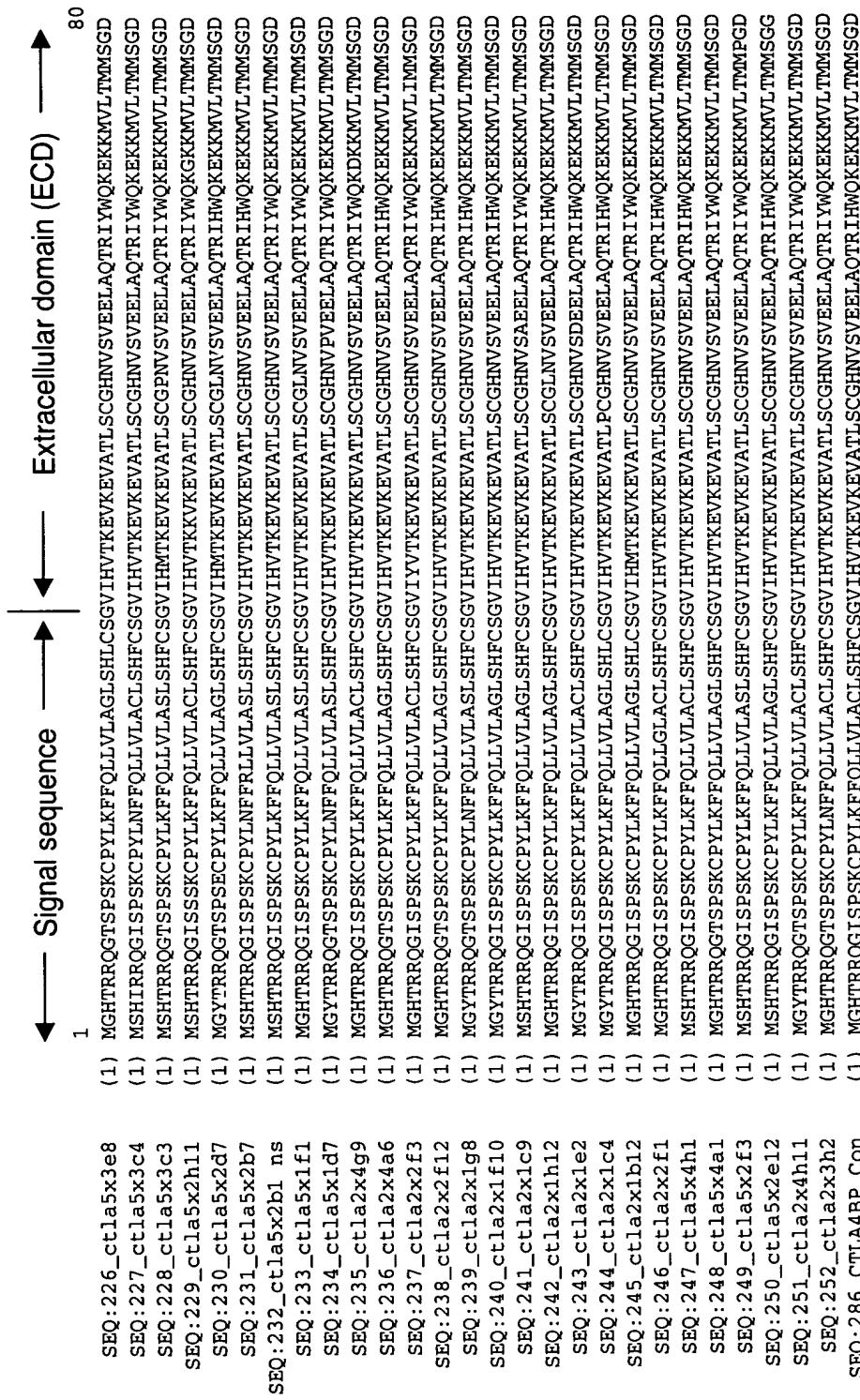


Fig. 3B

SEQ: 278_Human_B7-1	81	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVTLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 069_R1_CTLA4BP-5	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 070_R1_CTLA4BP-7	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 071_R1_CTLA4BP-11	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 072_R1_CTLA4BP-13	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 073_R1_CTLA4BP-27	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 074_R2_CTLA4BP-5x2-10c	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 075_R2_CTLA4BP-5x2-11d	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 076_R2_CTLA4BP-5X2-12F	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 077_R2_CTLA4BP-5x2-2g	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 078_R2_CTLA4BP-5x2-3c	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 079_R2_CTLA4BP-5x2-4c	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 080_R2_CTLA4BP-5x2-7b	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 081_R2_CTLA4BP-5x2-8c	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 082_R2_CTLA4BP-5x3-10e	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 083_R2_CTLA4BP-5x3-11b	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 084_R2_CTLA4BP-5x3-6f	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 085_R2_CTLA4BP-5x4-11d	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 086_R2_CTLA4BP-5x4-12c	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 087_R2_CTLA4BP-5x4-1f	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 088_R2_CTLA4BP-5x5-2e	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 089_R2_CTLA4BP-5x5-6e	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 090_R2_CTLA4BP-5x6-9d	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 091_R2_CTLA4BP-5x8-1f	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 092_R2_CTLA4BP-5x9-12c	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 222_ct1a5x9d10	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 223_ct1a5x6f6	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 224_ct1a5x5h12	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI
SEQ: 225_ct1a5x5c10	(81)	MINIPEYKNRRTIFDITNNLSIVILARPSDEGTYECVVLKYEKDAFKREHLAEVMLSVKADEFPTPSISDFFEIPPSNIRRI

Fig. 3C

Extracellular domain (ECD)	160
SEQ: 226_ctla5x3e8	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 227_ctla5x3c4	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 228_ctla5x3c3	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 229_ctla5x2h11	(81) MNWPECKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 230_ctla5x2d7	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 231_ctla5x2b7	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 232_ctla5x2b1_ns	(81) MNWPEHKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 233_ctla5x1f1	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 234_ctla5x1d7	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 235_ctla2x4g9	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 236_ctla2x4a6	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 237_ctla2x2f3	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGT-ECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 238_ctla2x2f12	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 239_ctla2x1g8	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 240_ctla2x1f10	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 241_ctla2x1c9	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 242_ctla2x1h2	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 243_ctla2x1e2	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 244_ctla2x1c4	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 245_ctla2x1b12	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 246_ctla2x2f1	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 247_ctla5x4h1	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 248_ctla5x4a1	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 249_ctla5x2f3	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 250_ctla5x2e12	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 251_ctla2x4h11	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 252_ctla2x3h2	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI
SEQ: 256_CTLA4BP_Con	(81) MNWPEYKRNTRIFDITNNLSIVIALRPSDEGTYECVVLKEYDAFKREHLAEVTLVKADFTPSISDFEIPPSNIRRI

Fig. 3D

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SEQ: 278_Human_B7-1		161	ICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP
SEQ: 069_R1_CTLA4BP-5	(161)	ICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 070_R1_CTLA4BP-7	(161)	ICLTSGGFPEPHLAMKDGEELNAISTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 071_R1_CTLA4BP-11	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 072_R1_CTLA4BP-13	(161)	ICSTSGGFPEPHLFGLENGEINAINTTASQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 073_R1_CTLA4BP-27	(161)	ICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 074_R2_CTLA4BP-5x2-10c	(161)	ICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 075_R2_CTLA4BP-5x2-11d	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 076_R2_CTLA4BP-5x2-12F	(161)	ICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 077_R2_CTLA4BP-5x2-2g	(161)	ICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 078_R2_CTLA4BP-5x2-3c	(161)	ICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 079_R2_CTLA4BP-5x2-4c	(161)	ICSTSGGFPEPHLSWLENGEELNGINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 080_R2_CTLA4BP-5x2-7b	(161)	ICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 081_R2_CTLA4BP-5x2-8c	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 082_R2_CTLA4BP-5x3-10e	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 083_R2_CTLA4BP-5x3-11b	(161)	ICSTSGGFPEPHLSWLENGEELNAISTTISQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 084_R2_CTLA4BP-5x3-6f	(161)	ICSTSGGFPEPHLSWLENGEELNAINTTASQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 085_R2_CTLA4BP-5x4-11d	(161)	ICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 086_R2_CTLA4BP-5x4-12c	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 087_R2_CTLA4BP-5x4-1f	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 088_R2_CTLA4BP-5x5-2e	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 089_R2_CTLA4BP-5x5-6e	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 090_R2_CTLA4BP-5x6-9d	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 091_R2_CTLA4BP-5x8-1f	(161)	ICASAGGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 092_R2_CTLA4BP-5x9-12c	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTASQDPETELYAVSSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 2222_ct1a5x9d10	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
SEQ: 2223_ct1a5x6f6	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	
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SEQ: 225_ct1a5x5c12	(161)	ICSTSGGFPEPHLFWLENGEELNAINTTVSQDPETELYAVSSKLDNFNMTTNHSFMCCLIKYGLRWNQTFNWNNTKQEHFP	

Fig. 3E

Extracellular domain (ECD)

	161	240
SEQ:226_ctla5x3e8	(161) ICSTS GG FP PE PHLFWL ENG ELNA INT TV SQ DPETEL Y TV SS KL D EN M T N H S F V CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:227_ctla5x3c4	(161) ICSTS GG FP PE PHL AM DE G ELNA INT TA S Q DP ETEL Y TV SS KL D EN M T N H S F V CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:228_ctla5x3c3	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPGT E LY Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:229_ctla5x2h11	(161) ICSTS GG FP PE PHLFWL ENG ELNA INT TA S Q DP ETEL Y AV Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:230_ctla5x2d7	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPETEL Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:231_ctla5x2b7	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPGT E LY Y TV SS KL D EN M T N H S F V CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:232_ctla5x2b1_ns	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPETEL Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:233_ctla5x1f1	(161) ICSTS GG FP PE PHLFWL ENG ELNA INT TA S Q DP ETEL Y TV SS KL D EN M T N H S F V CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:234_ctla5x1d7	(161) ICSTS GG FP PE PHL AM DE G ELNA INT TV SQ DPETEL Y AV Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:235_ctla2x4g9	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPGT E LY Y TV SS KL D EN M T N H S F M CL I RY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:236_ctla2x4a6	(161) ICSTS GG FP PE PHLFWL ENG ELNA INT TV SQ DPETEL Y AX Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:237_ctla2x2f3	(160) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPGT E LY Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:238_ctla2x2f12	(161) ICSTS GG FP PE PHL AM DE G ELNA INT TV SQ DPETEL Y AV Y SS KL D EN M T N H S F M CL I KY G HL R R AN Q T FW W NT P K Q E H FP	
SEQ:239_ctla2x198	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPGT E LY Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:240_ctla2x1f10	(161) ICSTS GG FP PE PHLFWL ENG ELNA INT TV SQ DPGT E LY Y AV Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:241_ctla2x1c9	(161) ICSTS GG FP PE PHL AM DE G ELNA INT TV SQ DPETEL Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:242_ctla2x1h12	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPGT E LY Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:243_ctla2x1e2	(161) ICSTS GG FP PE PHLFWL ENG ELNA INT TV SQ DPGT E LY Y AV Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:244_ctla2x1c4	(161) ICSTS GG FP PE PHLFWL ENG ELNA INT TV SQ DPGT E LY Y AV Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:245_ctla2x1b12	(161) ICSTS GG FP PE PHL AM DE G ELNA INT TV SQ DPETEL Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:246_ctla2x2f1	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPGT E LY Y AV Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:247_ctla5x4h1	(161) ICSTS GG FP PE PHLFWL ENG ELNA INT TV SQ DPGT E LY Y AV Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:248_ctla5x4a1	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPGT E LY Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:249_ctla5x2f3	(161) ICSTS GG FP PE PHL AM DE G ELNA INT TV SQ DPETEL Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:250_ctla5x2e12	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPGT E LY Y AV Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:251_ctla2x4h11	(161) ICSTS GG FP PE PHLFWL ENG ELNA INT TV SQ DPGT E LY Y AV Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:252_ctla2x3h2	(161) ICSTS GG FP PE PHL SW LN GE ELNA INT TV SQ DPETEL Y TV SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	
SEQ:286_CTLA4BP_Con	(161) ICSTS GG FP PE PHL AM DE G ELNA INT TV SQ DPGT E LY Y AV Y SS KL D EN M T N H S F M CL I KY G HL R V N Q T FW W NT P K Q E H FP	

Fig. 3F

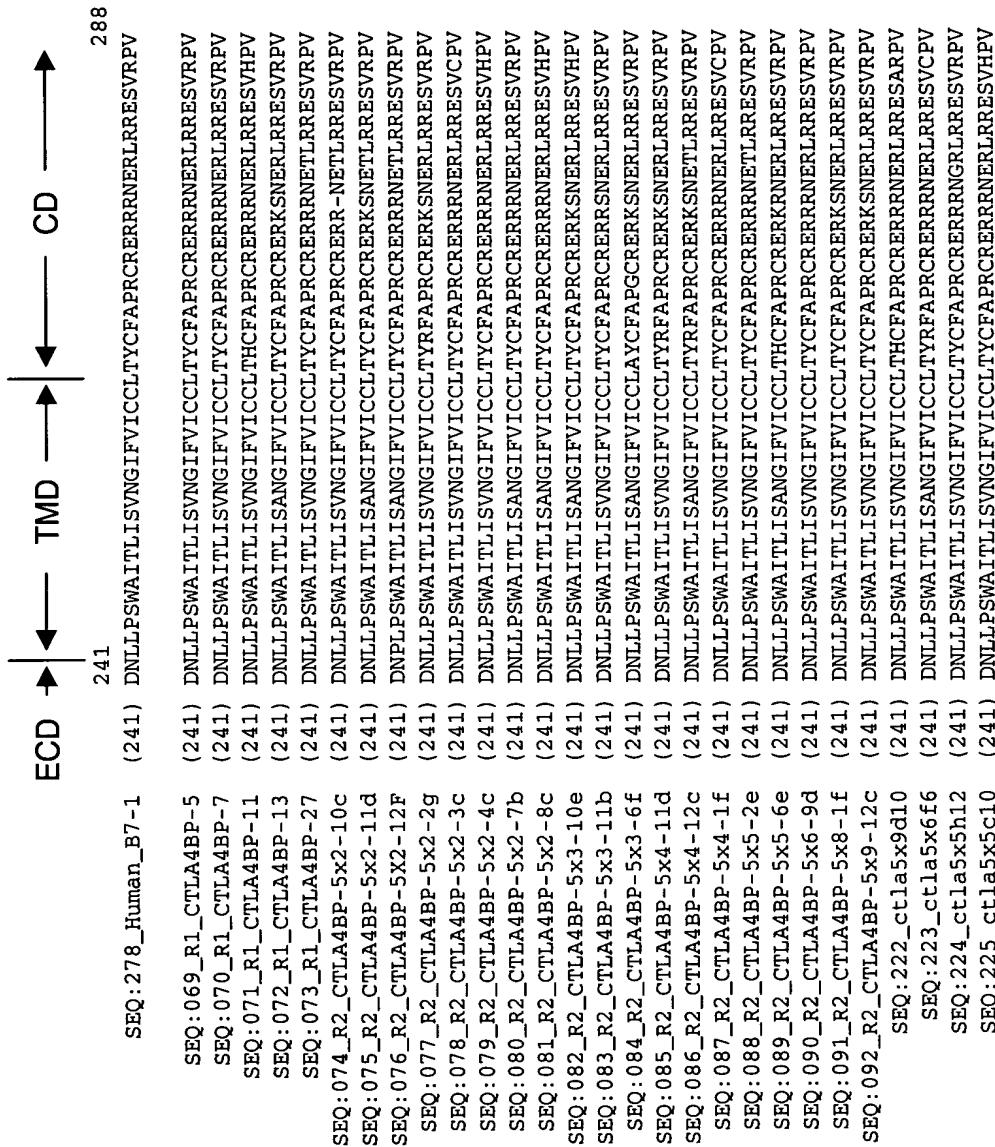


Fig. 3G

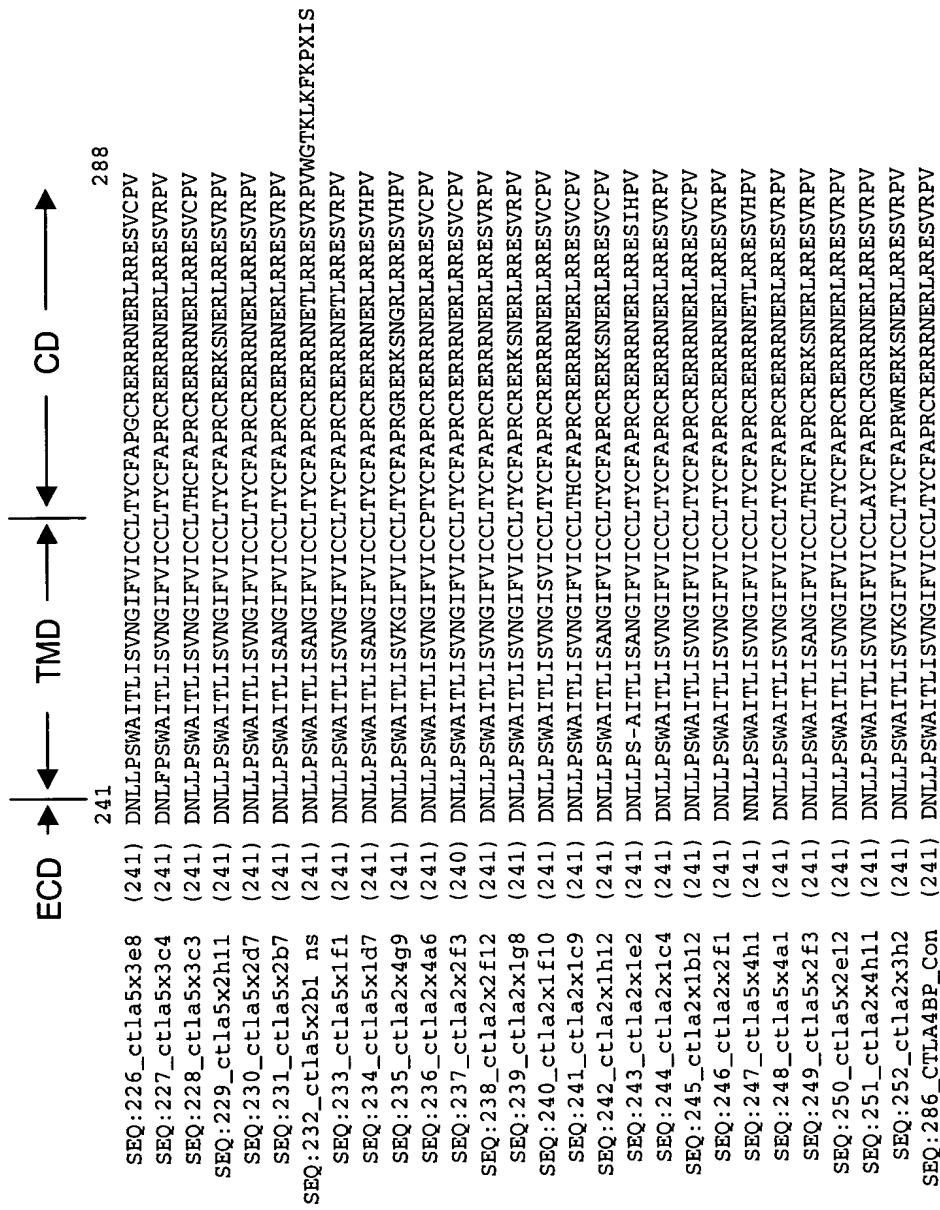


Fig. 3H

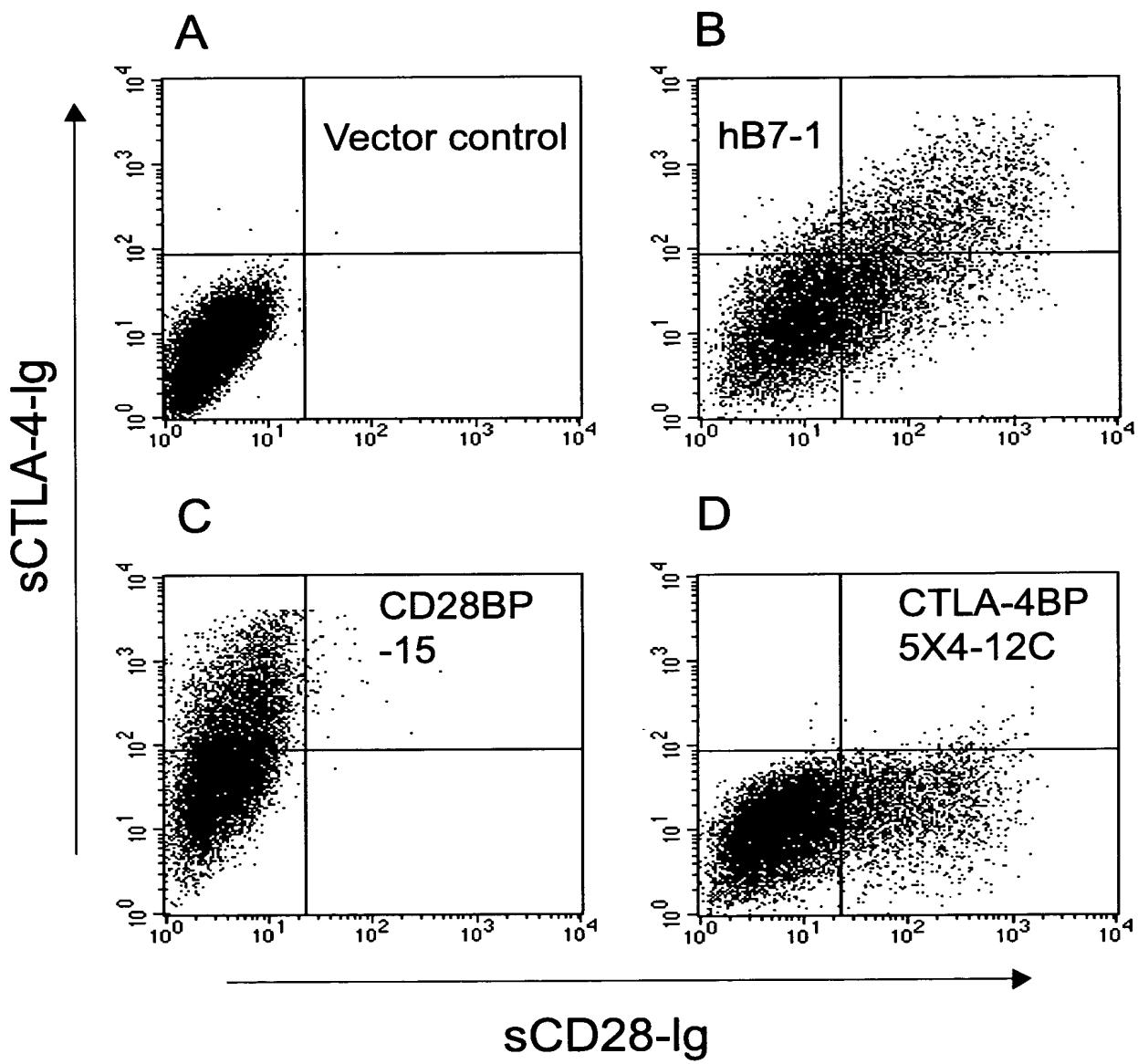
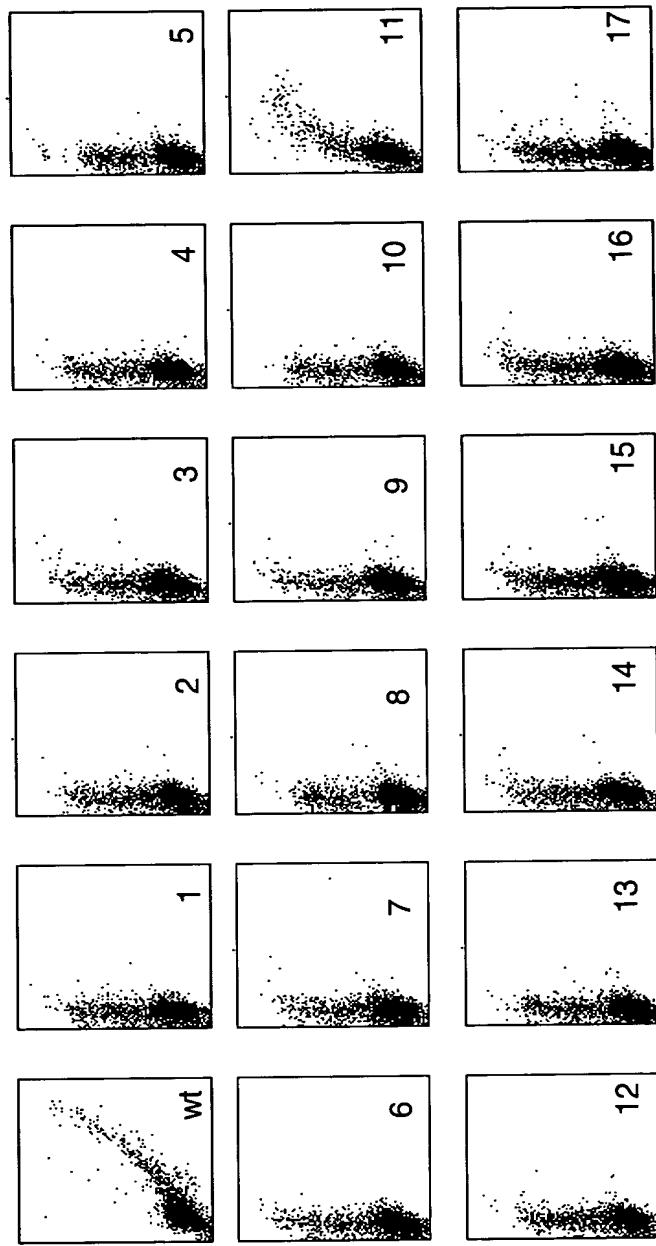


Fig. 4

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Transfected Cells



CTLA4 Binding →

Fig. 5

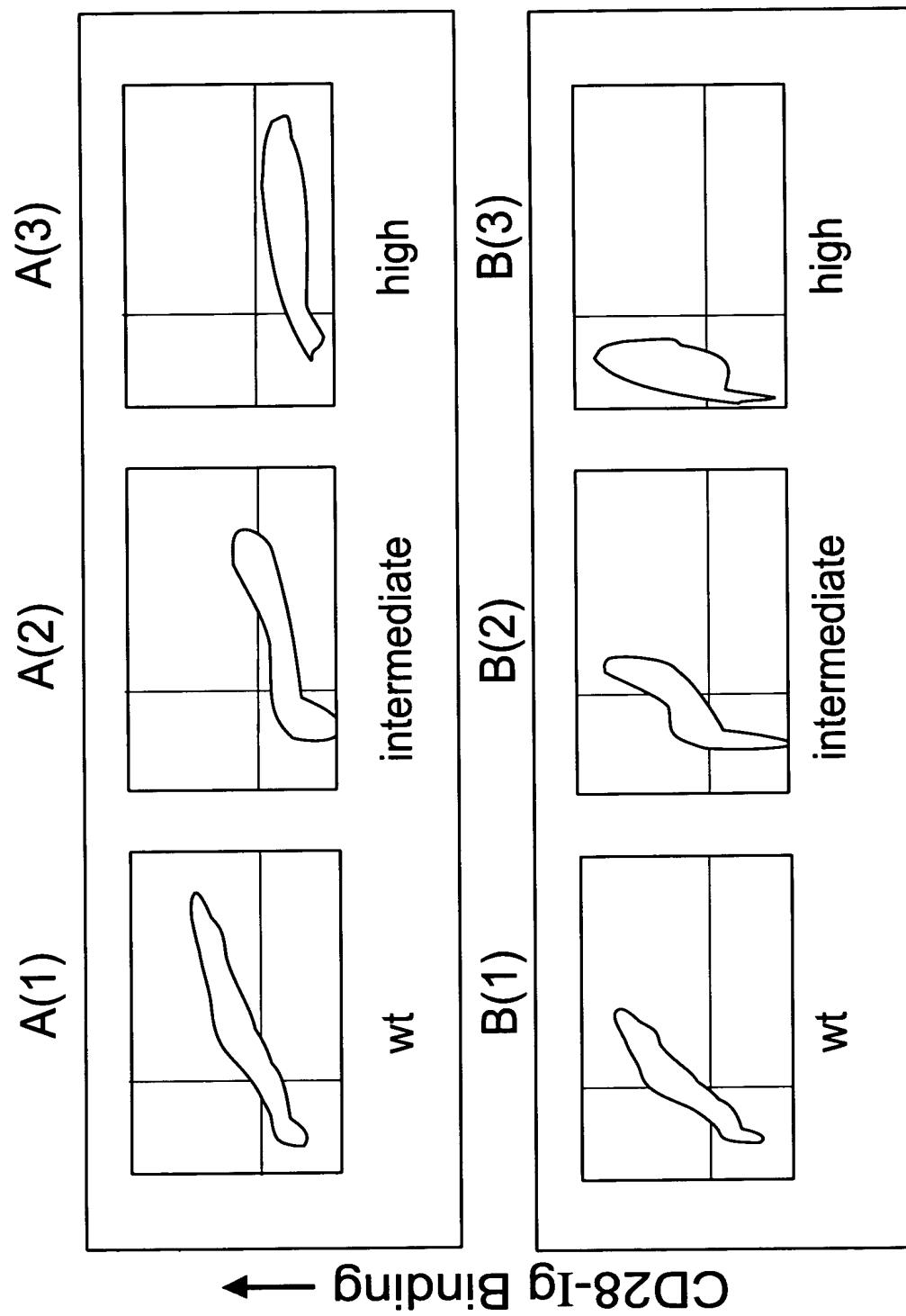


Fig. 6

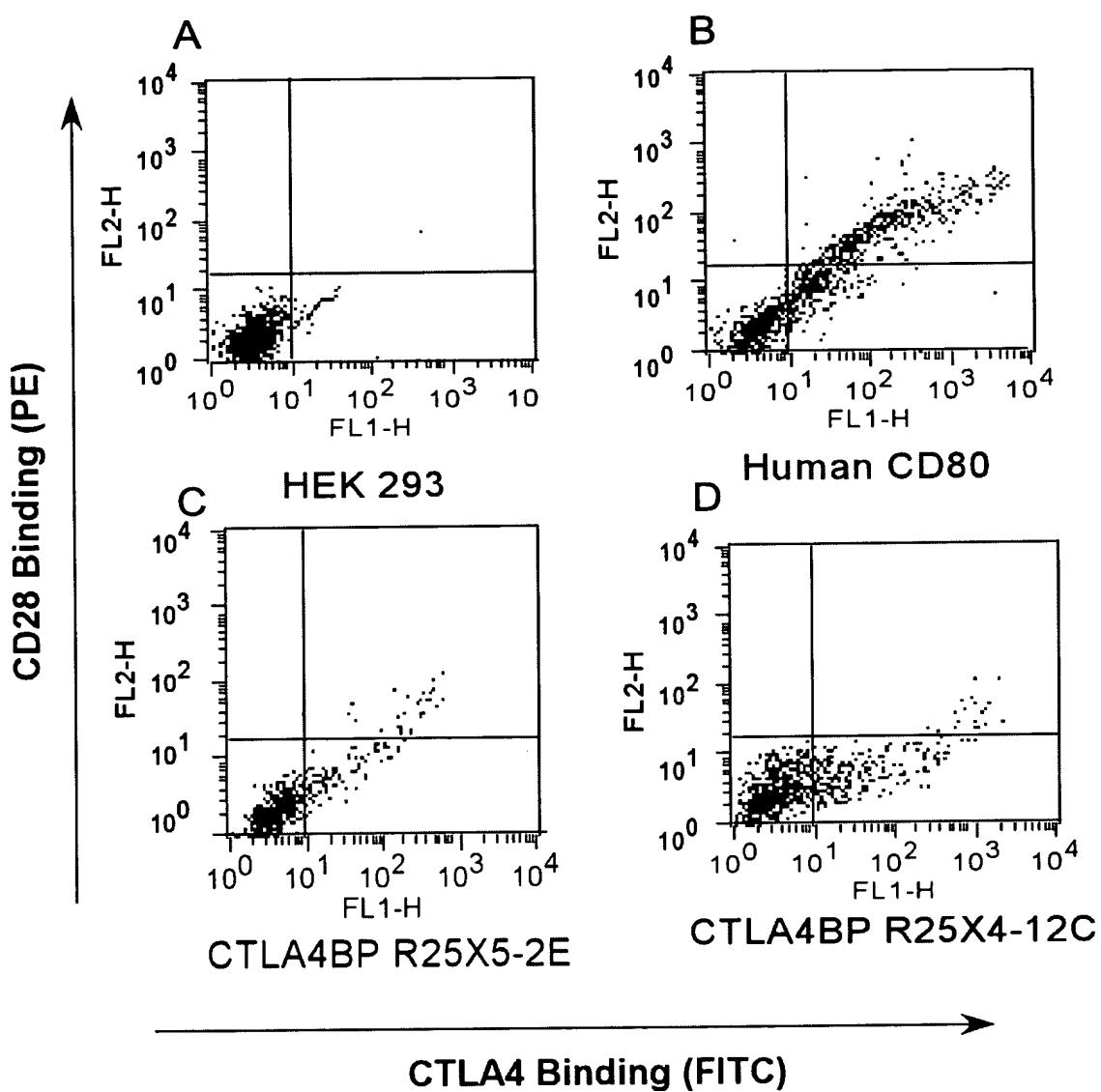


Fig. 7A-D

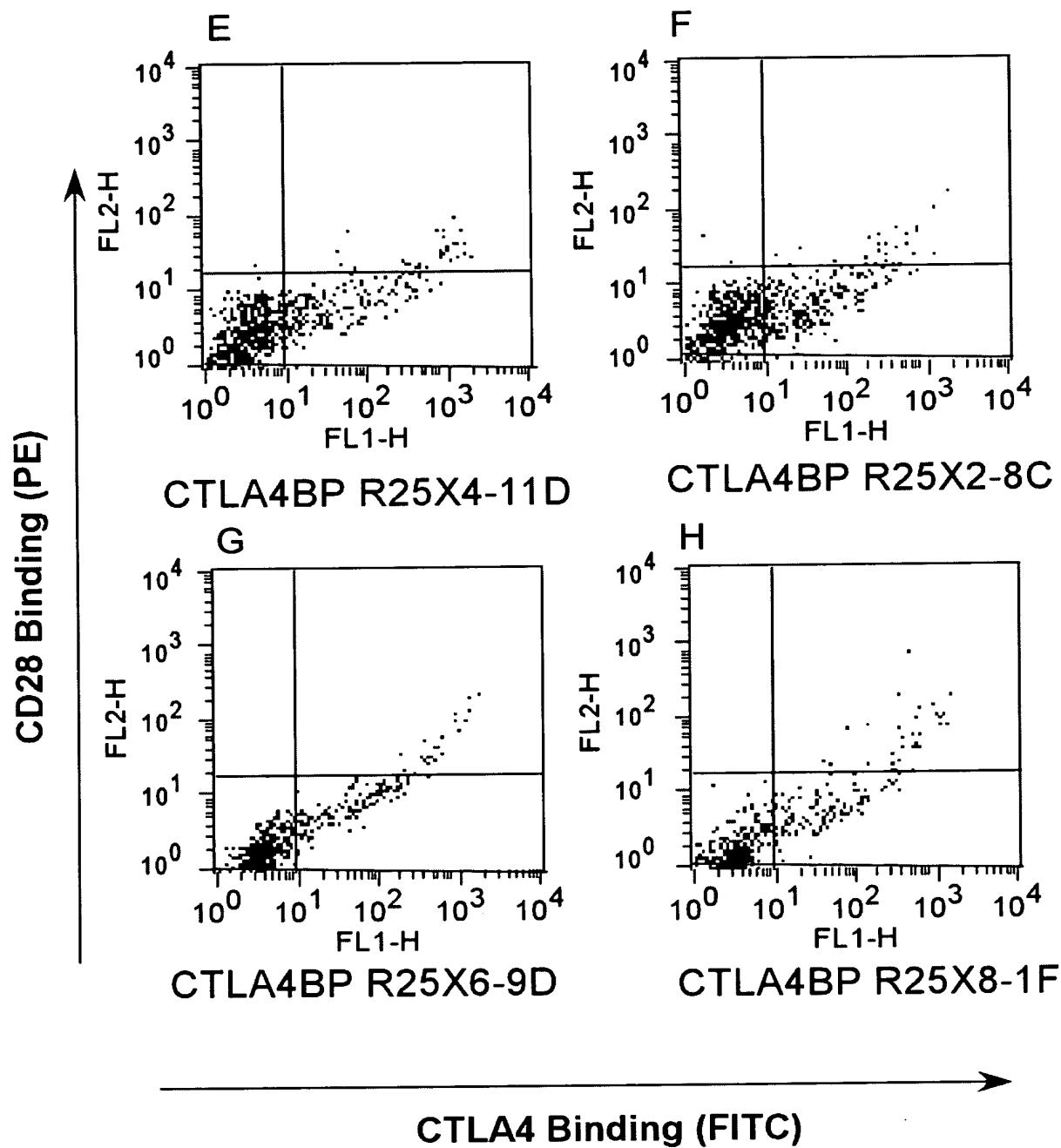


Fig. 7E-H

Fig. 8A

CTLA-4BP

MGHTRRQGTSPSKCPYLKFFQLLVLAGLSHFCSGVIIHVTKEVKEVATLSCGHNVSVEELAQT

RIHWQKEKKMVLTMMSGDMNIWPEYKNRTIFDTNNLSIVIALRPSDEGTYECVVLKYEKDAF

KREHHLAEVMLSUVKADFPPTPSISDFFEIPPSNIRRIICSTSGGFPFPHLFWLNGEELNAINTTVSQ

DPETELYTVSSKLDNFNMTTNHSFMCLIKYGHLRVNQTFNWNTPKQEHFPDNLPSWAITLISA

NGIFVICCLTYRFAPRCRERKSNETLRRRESVRPV



Fig. 8B

CD28BP

MGHTMKWGSLLPPKRPCLWLSQLVLTLGFLFYFCSGITPKSVTKRVKETVMLSCDYNTSTEELT

*SIRIYWQKDSKMVLAILPGKVQWWPEYKNRTITDMNDNPRIVILALRPSDSGTYTCVIQKPVLK

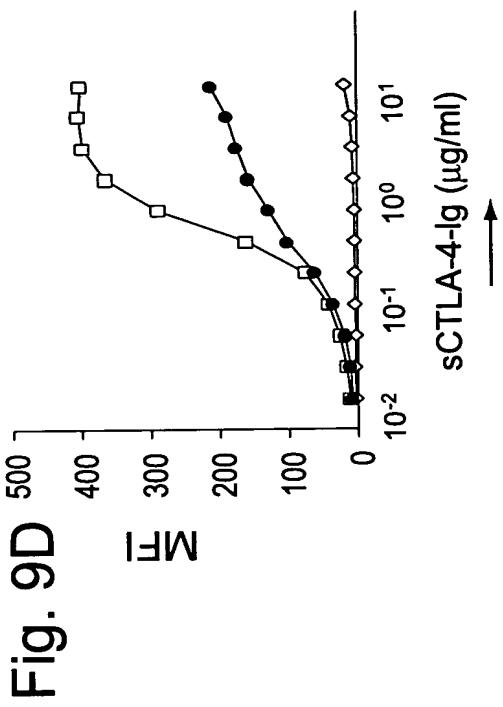
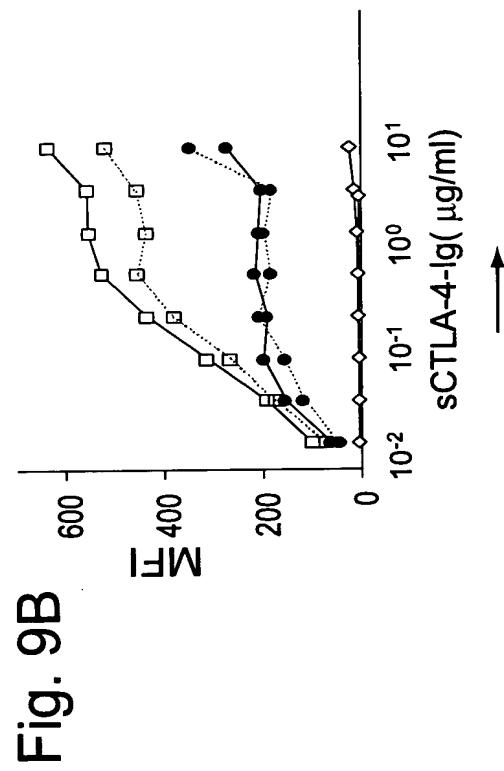
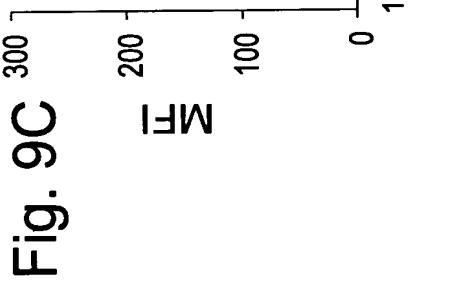
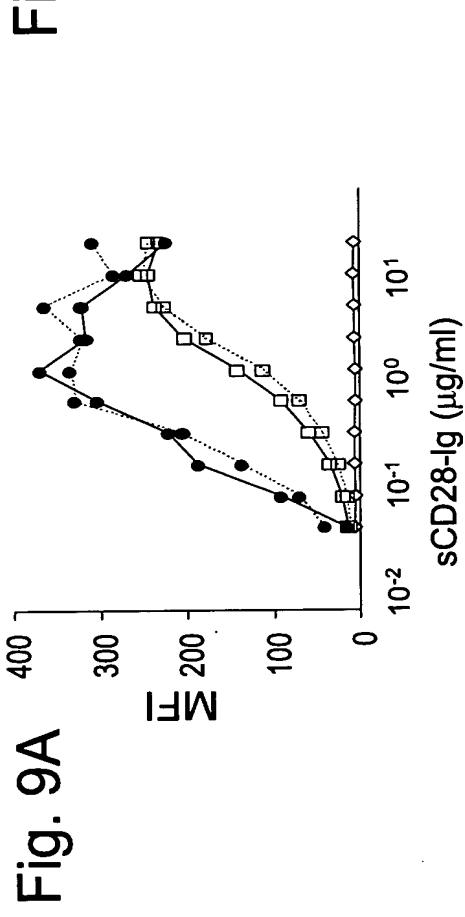
*GAYKLEHLASVRLMIRADFPVOPTINDLGNPSPNIRRLICSTSGGFPRPHLYWLENCEELNATNT

TVSQDPGTELYMISSELDFNVTNNSIVCLIKYGELSVSQIFPKQEPIDQLPFWVIIIPVS

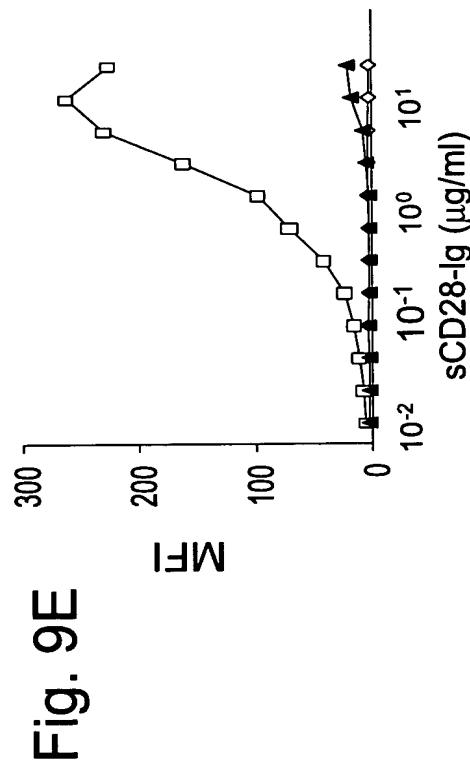
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- human
- orangutan
- rhesus
- baboon

—◊— Vector control
 —●— CD28BP-15
 —●— CD28BP-Flag
 —□— hB7-1
 —□— hB7-1-Flag
 —▲— CTLA-4BP 5X4-12c



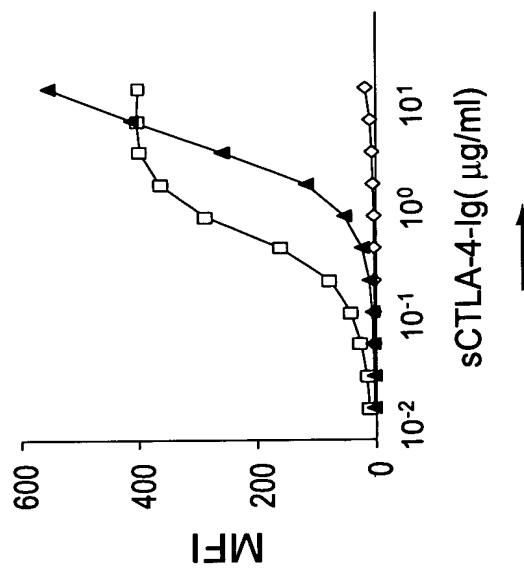
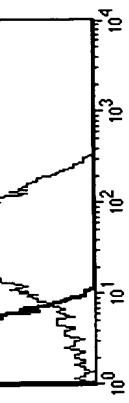
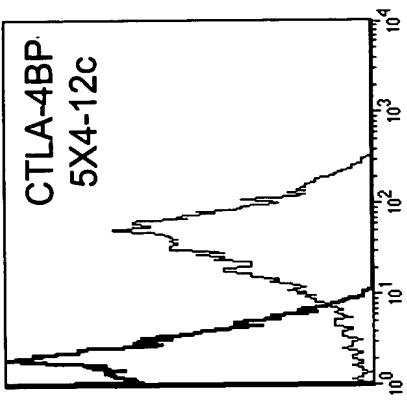
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- ▲- CTLA-4BP 5X4-12c



MF

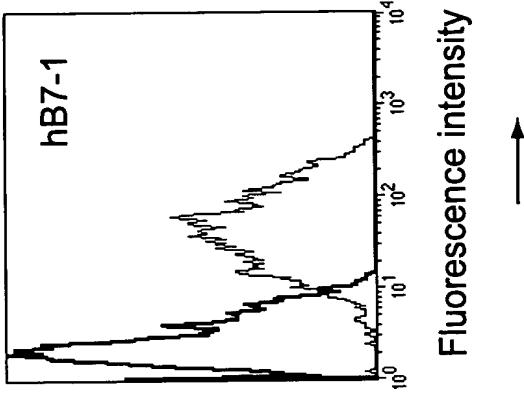
CTLA-4BP
5X4-12c

Fig. 9G



hB7-1

Fig. 9H



→

Fluorescence intensity

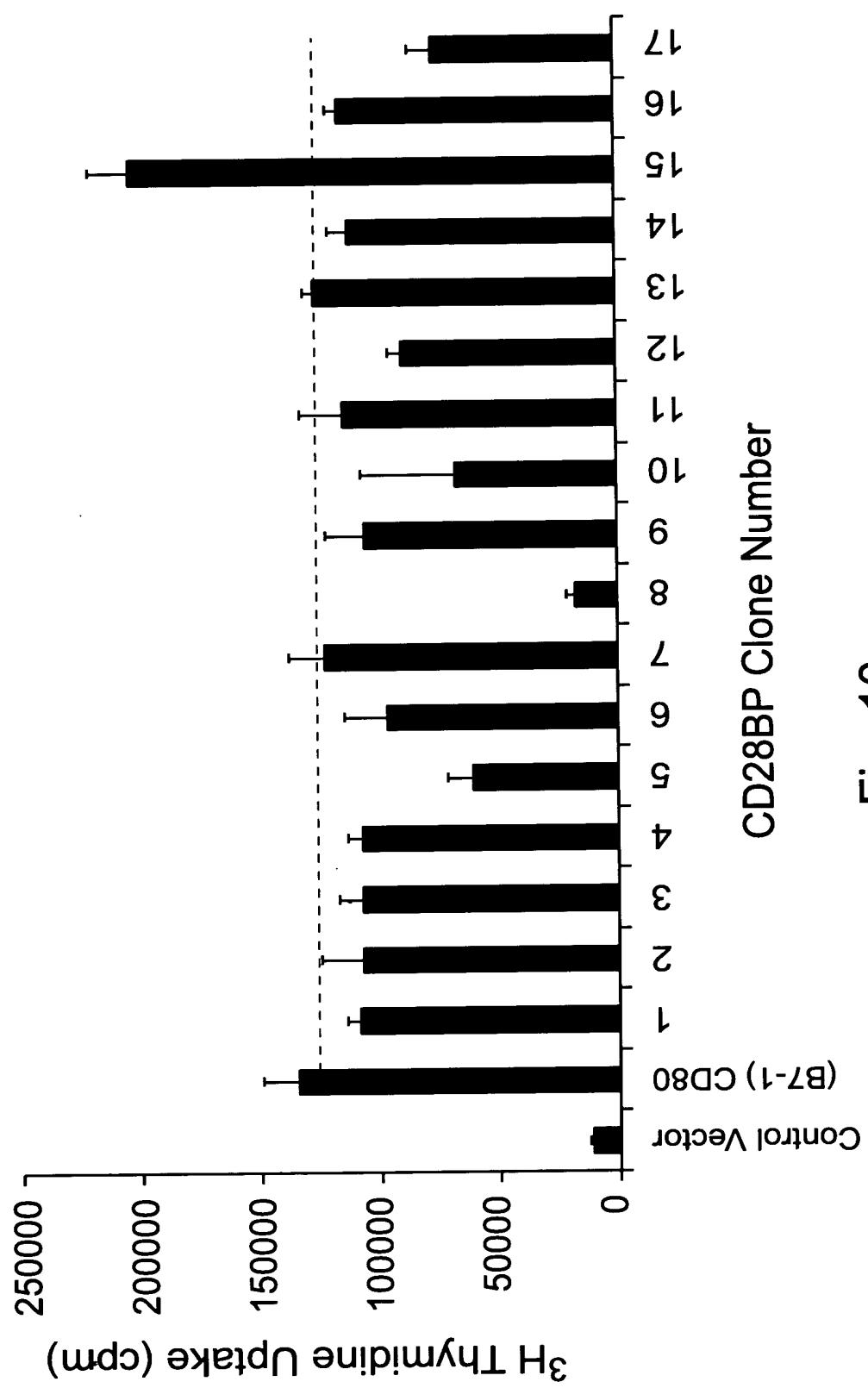


Fig. 10

Fig. 11A

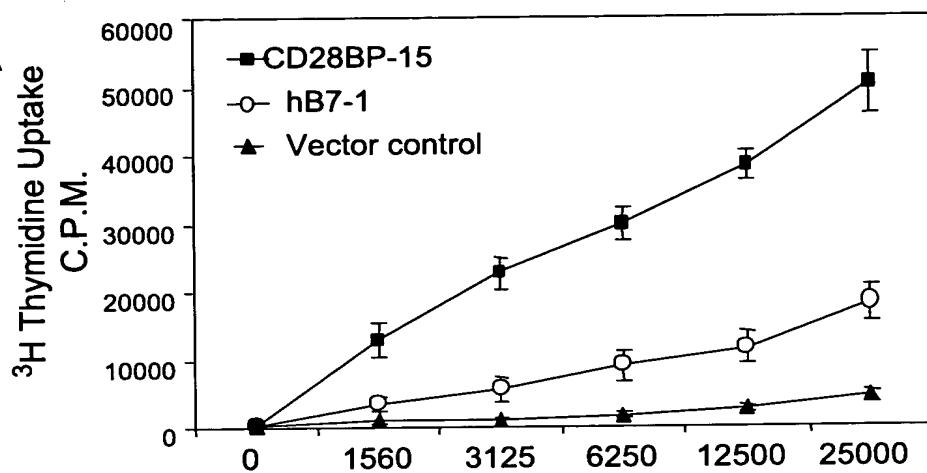


Fig. 11B

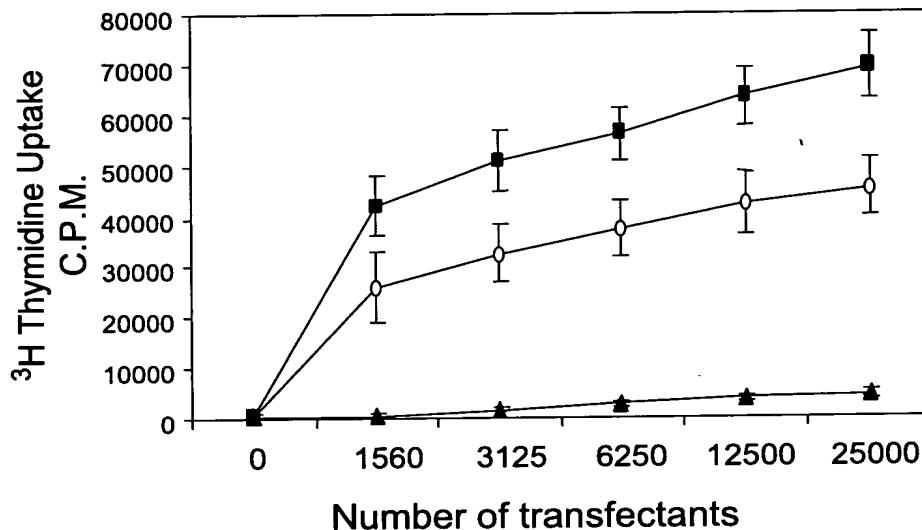
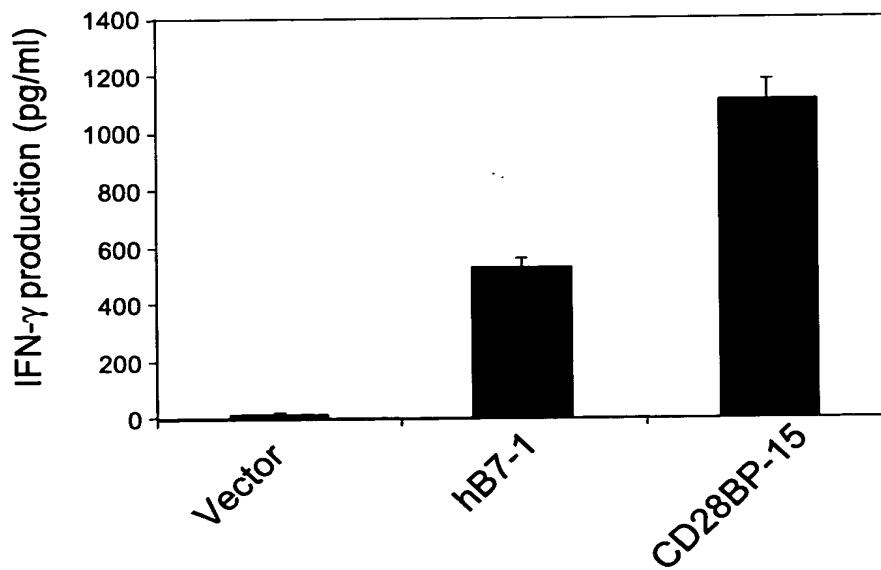


Fig. 11C



CTLA-4 BP Clone

Fig. 12

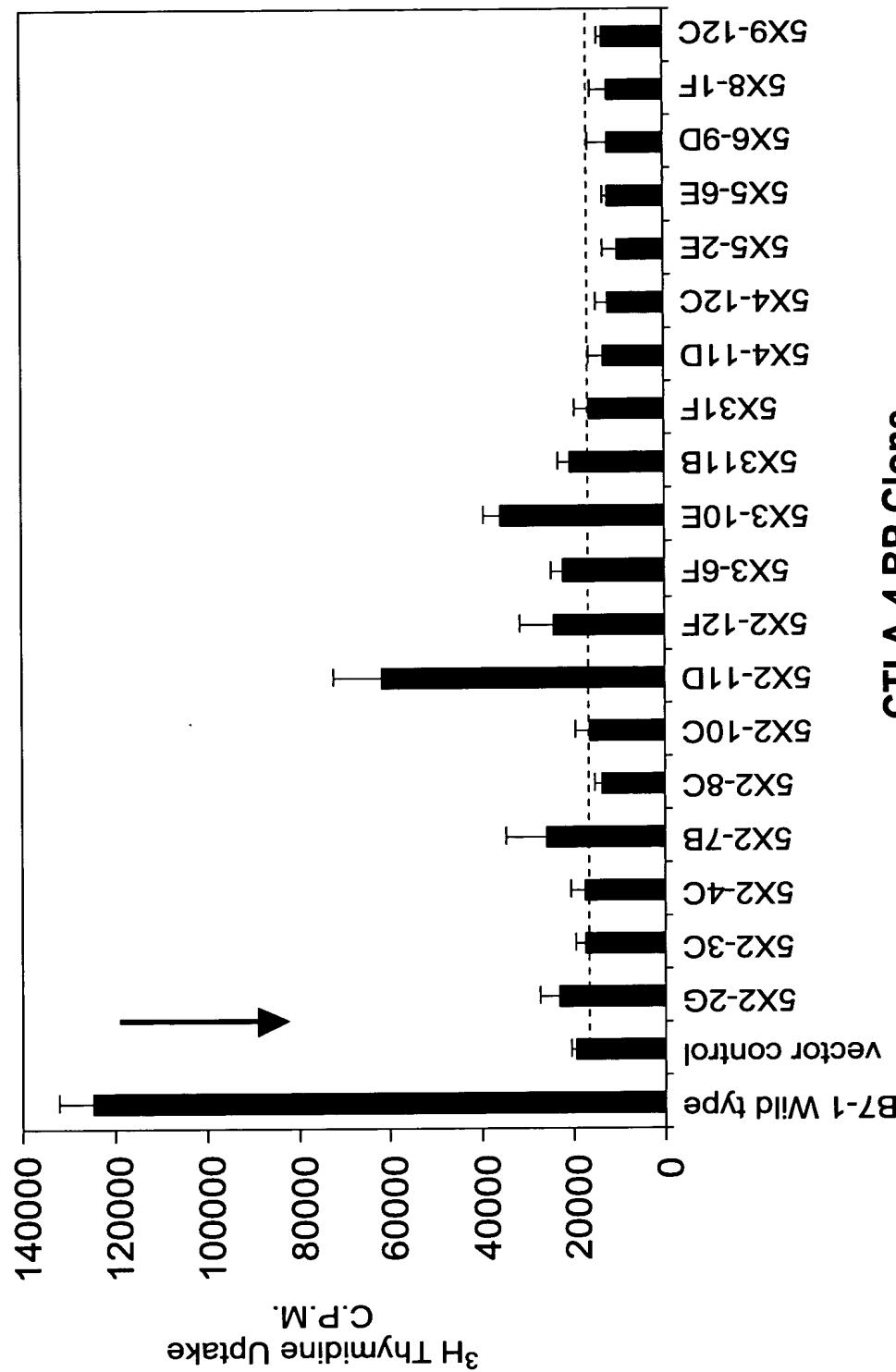


Fig. 13A

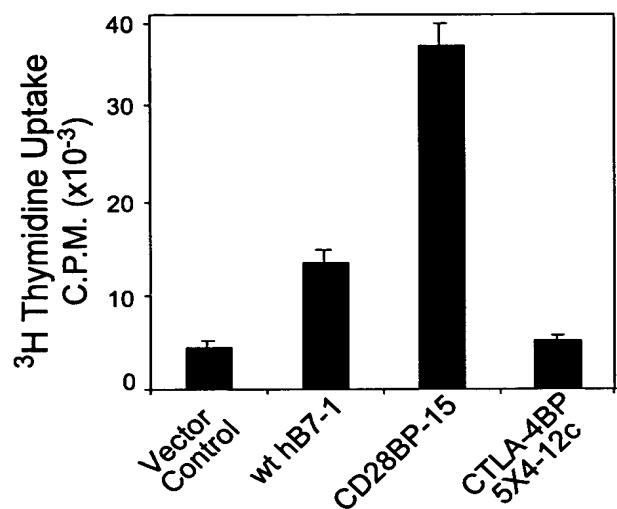


Fig. 13B

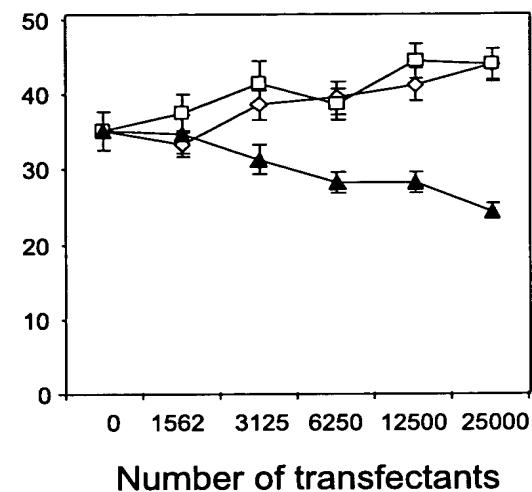


Fig. 13C

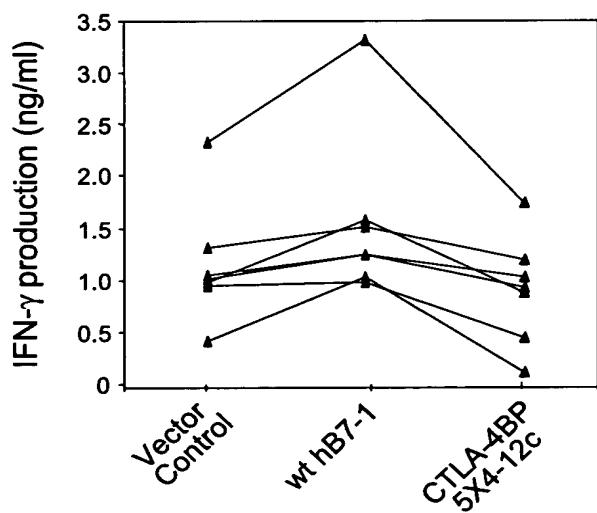
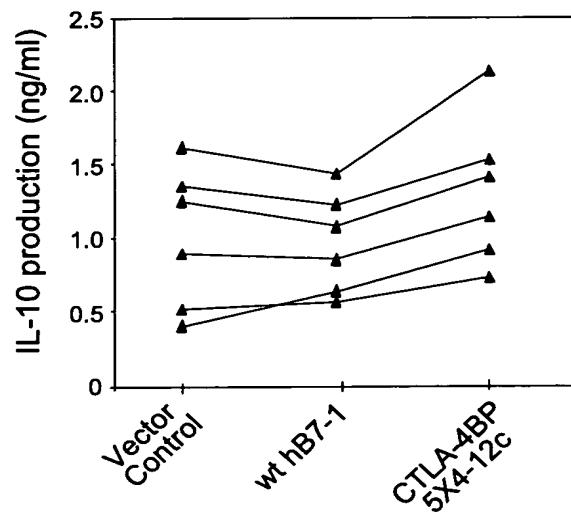
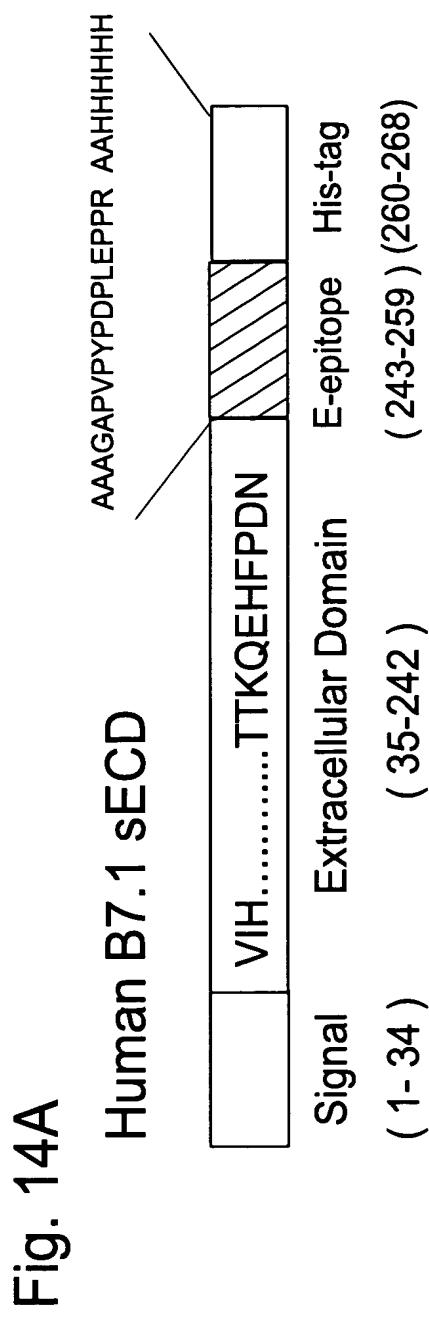


Fig. 13D



**Fig. 14B**

Human B7.1 ECD-Ig Form

VIH.....TTKQEHFPDN	Bst11	GVT	hinge -CH2-CH3
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PKSCDKTHTCPPCP.....

B7.1 ECD (35-242) VT Human IgG1 Fc Fragment
GenBank Acc# P01857

IEGR Factor X_a

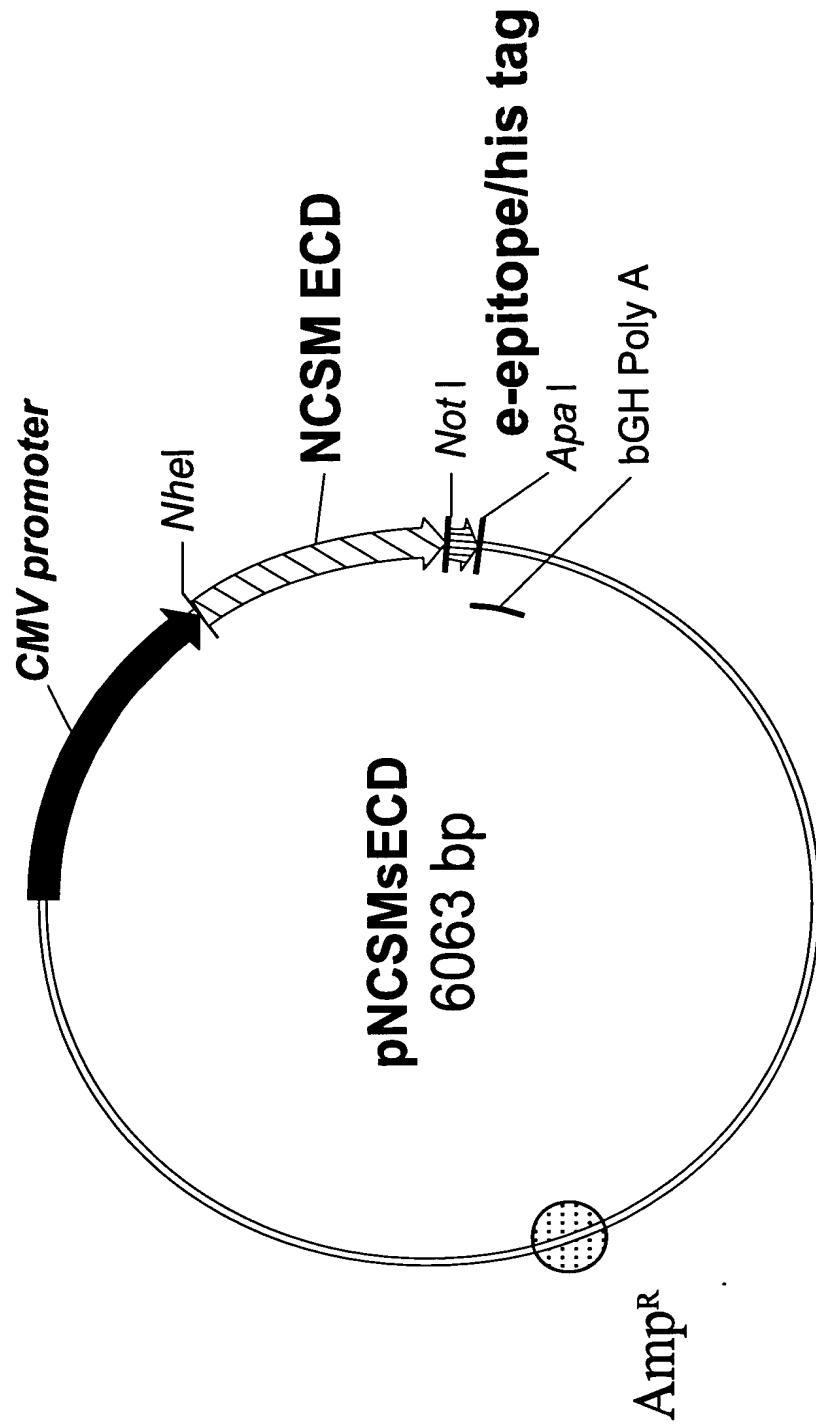


Fig. 15

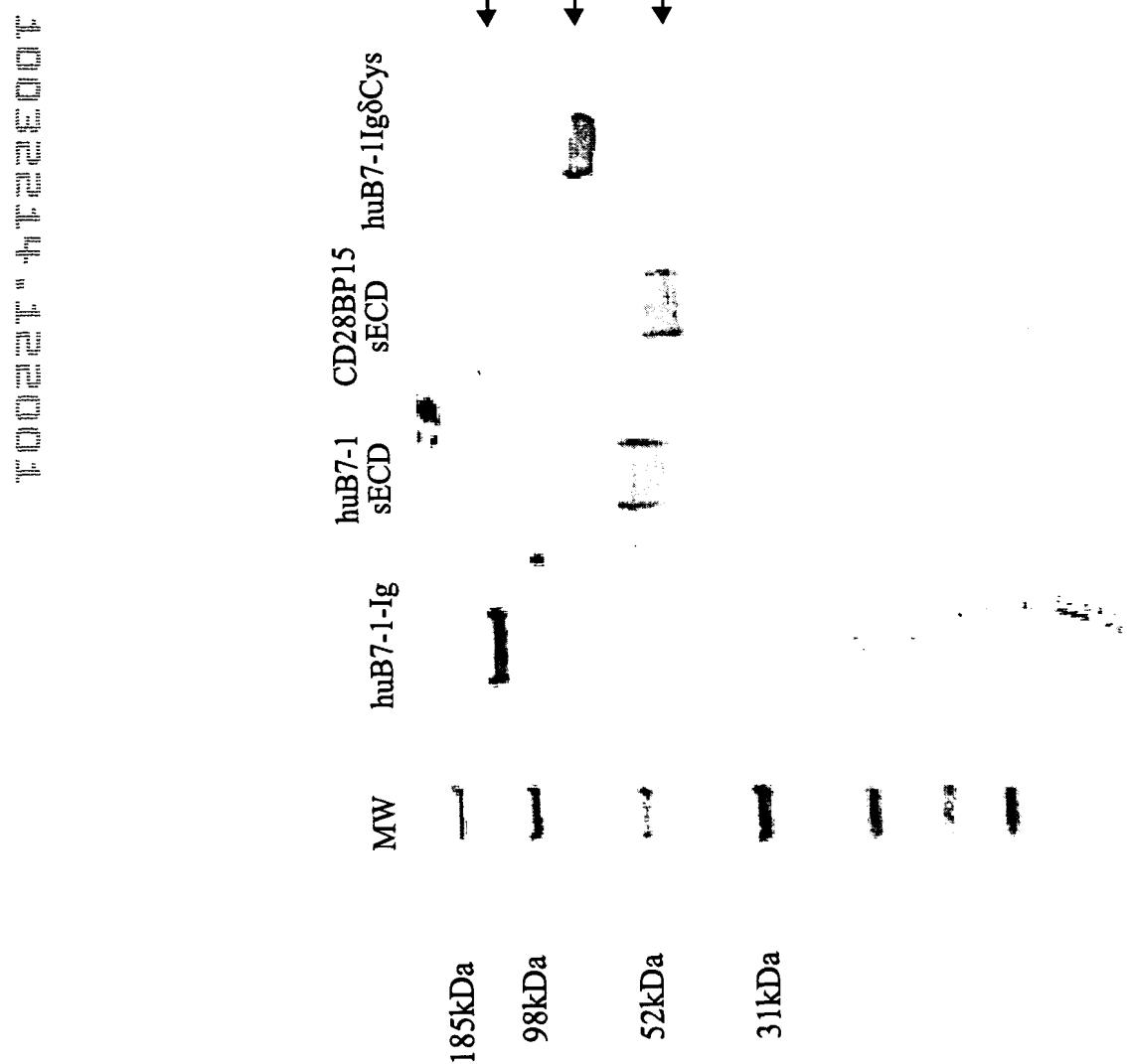


Fig. 16

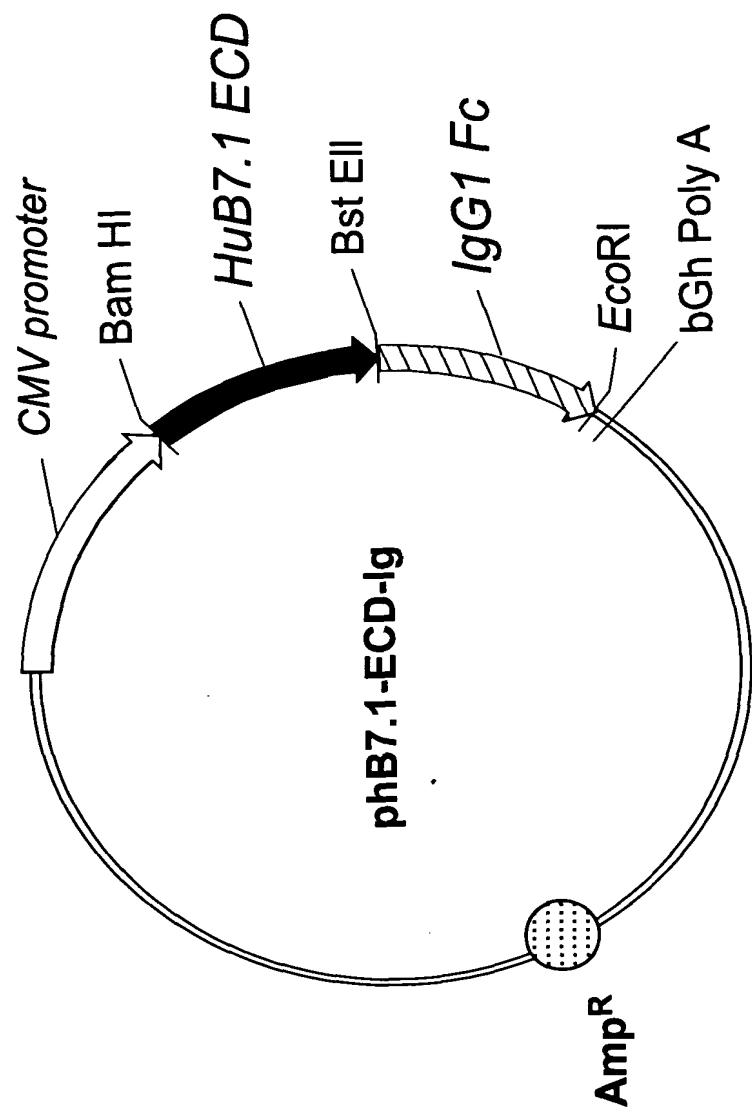


Fig. 17

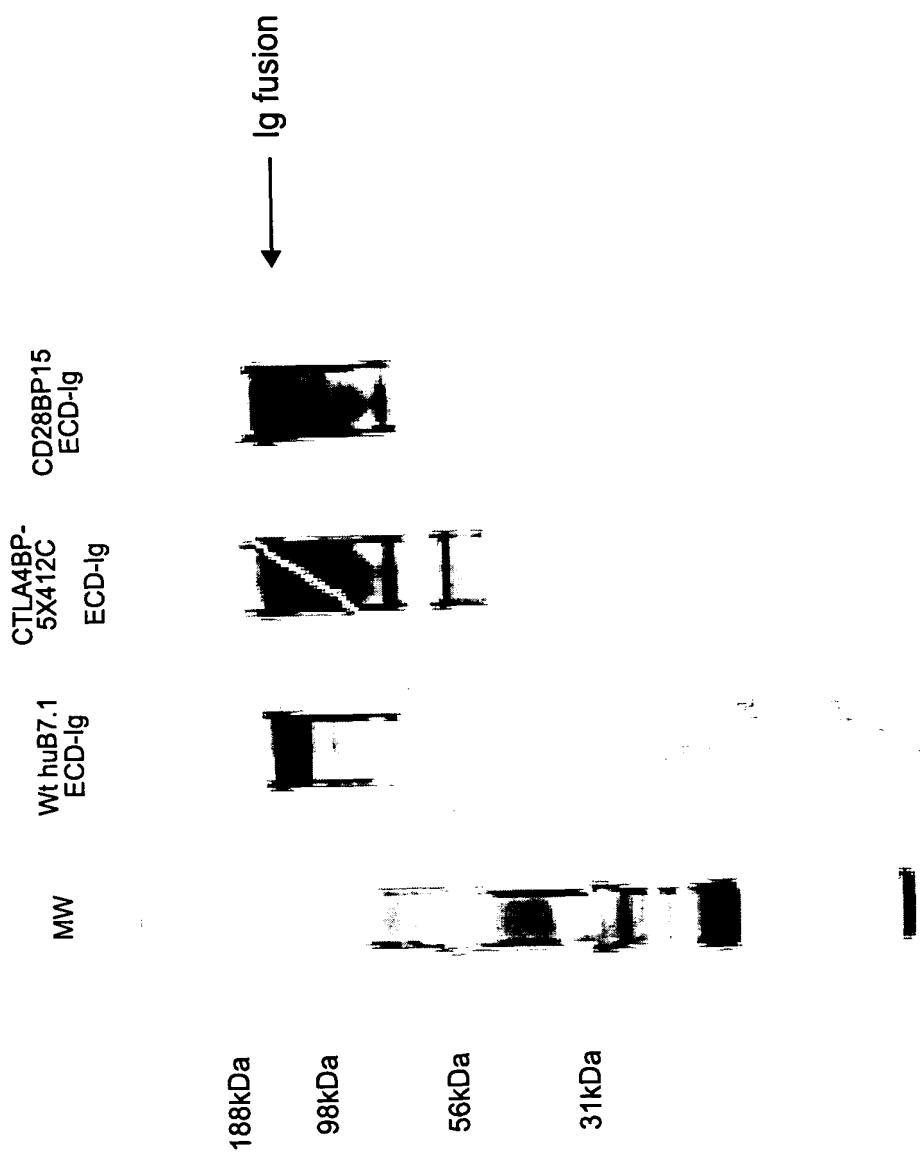


Fig. 18

Expression of CTLA-4BP-Ig and CD28BP-Ig Proteins

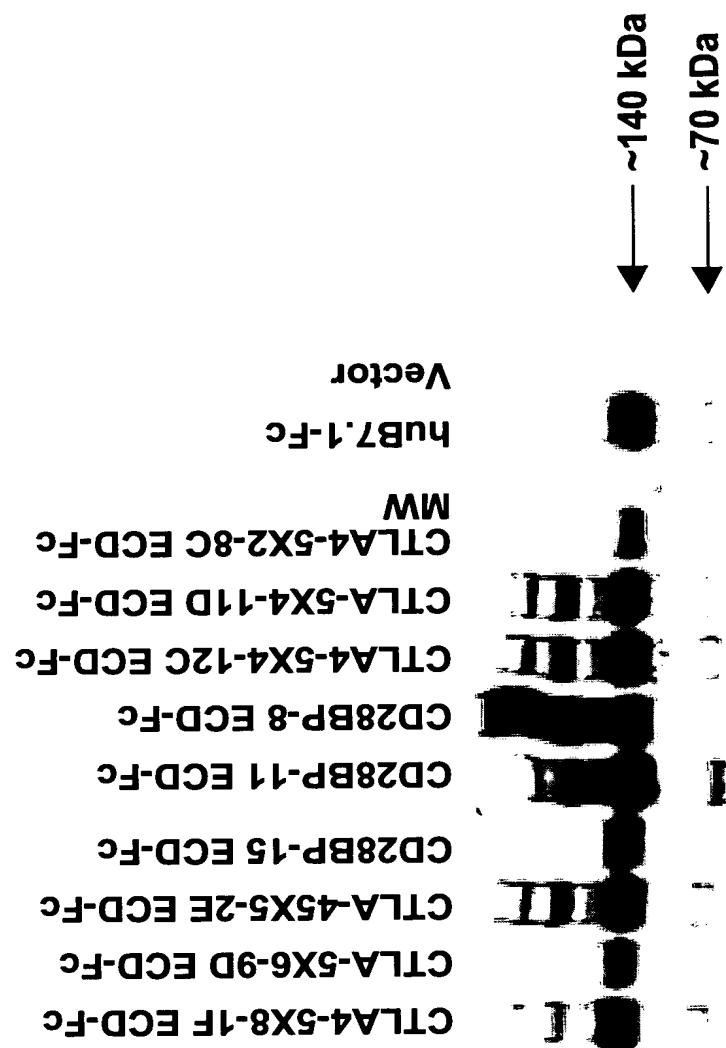


Fig. 19

Fig. 20A

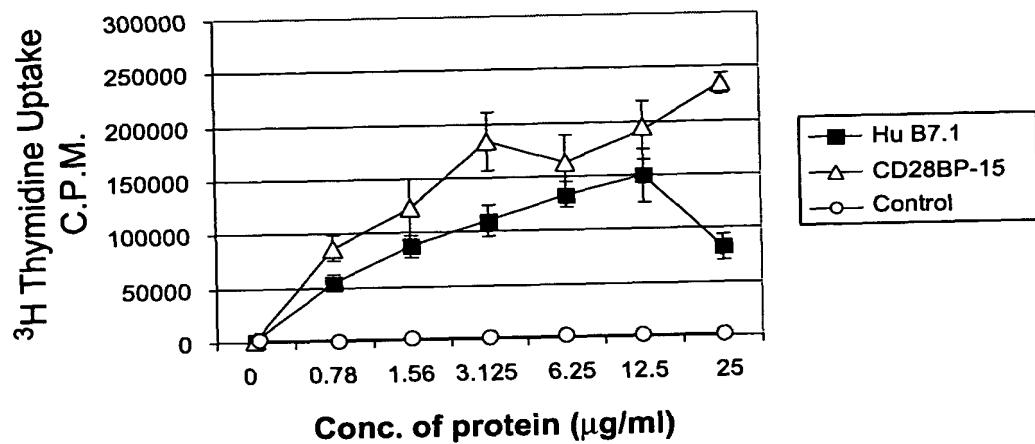


Fig. 20B

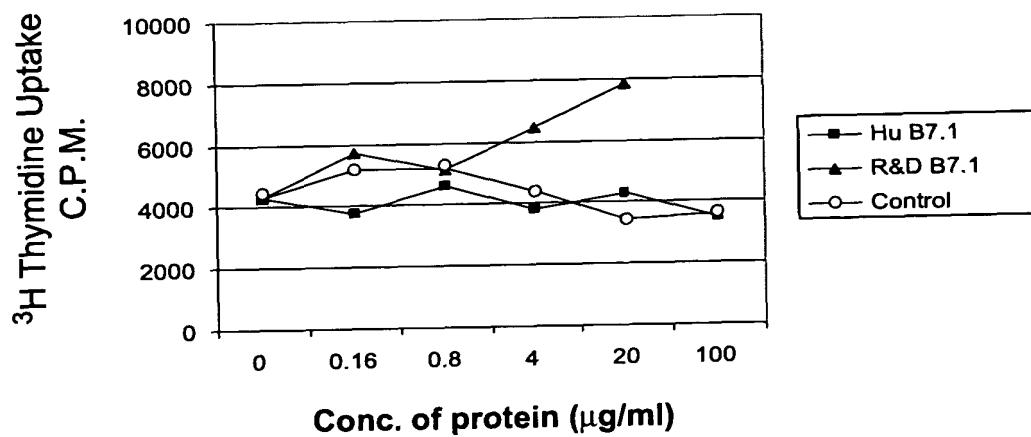


Fig. 20C

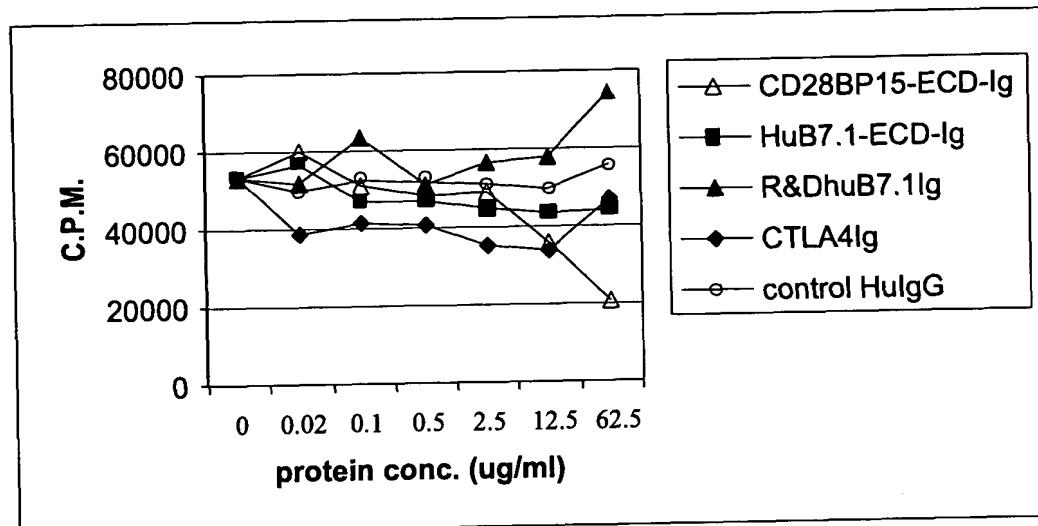
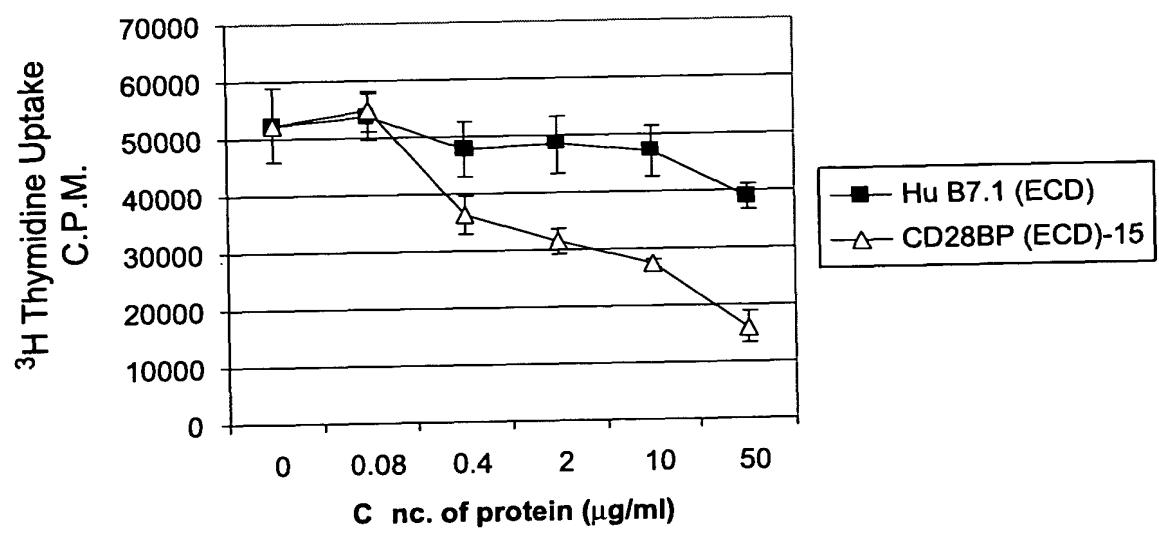


Fig. 20D



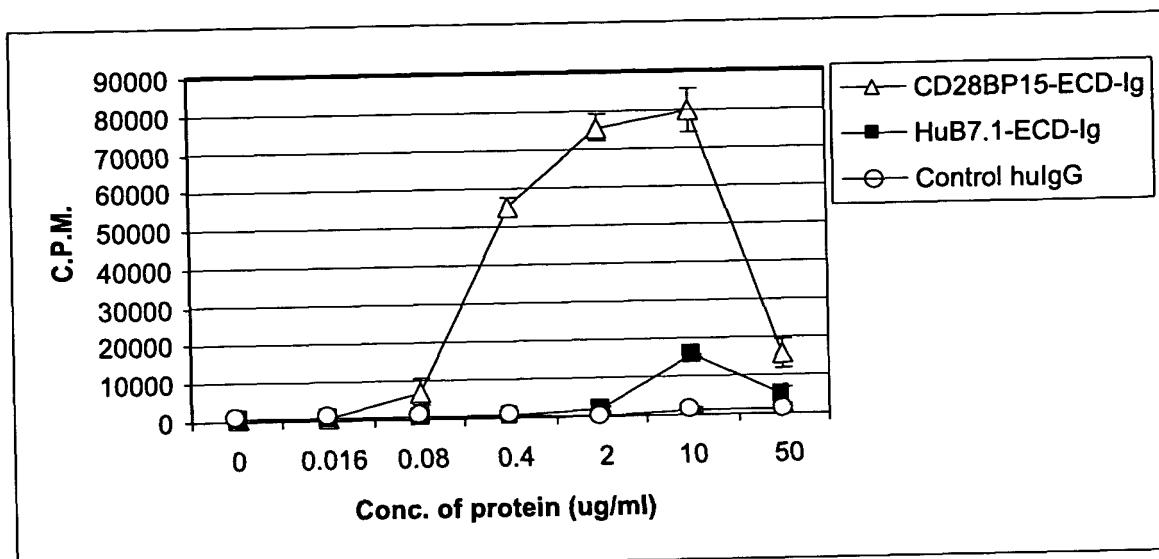


Fig. 20E

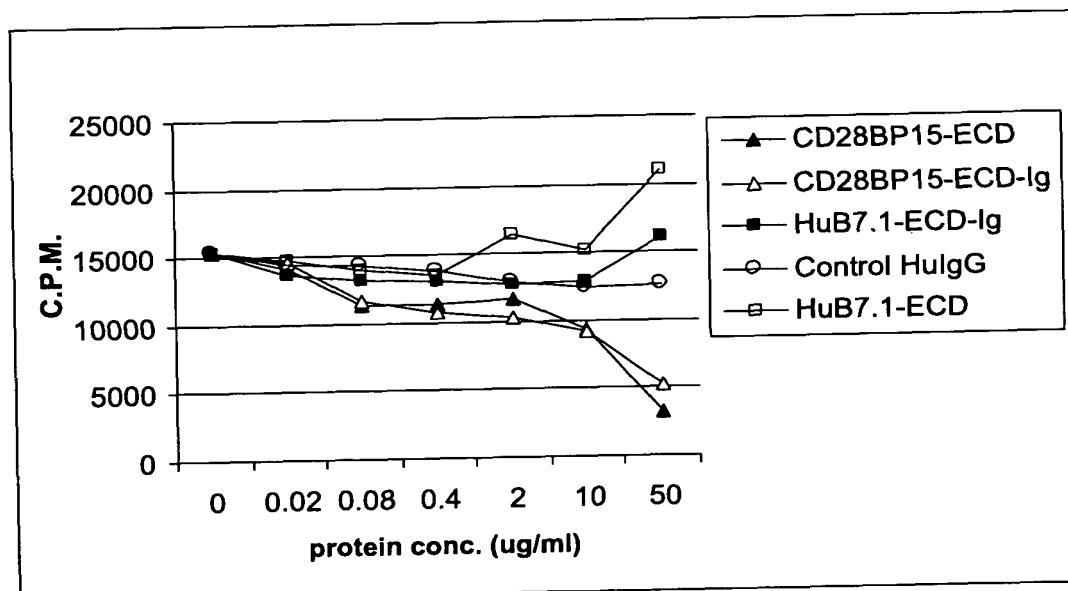


Fig. 20F

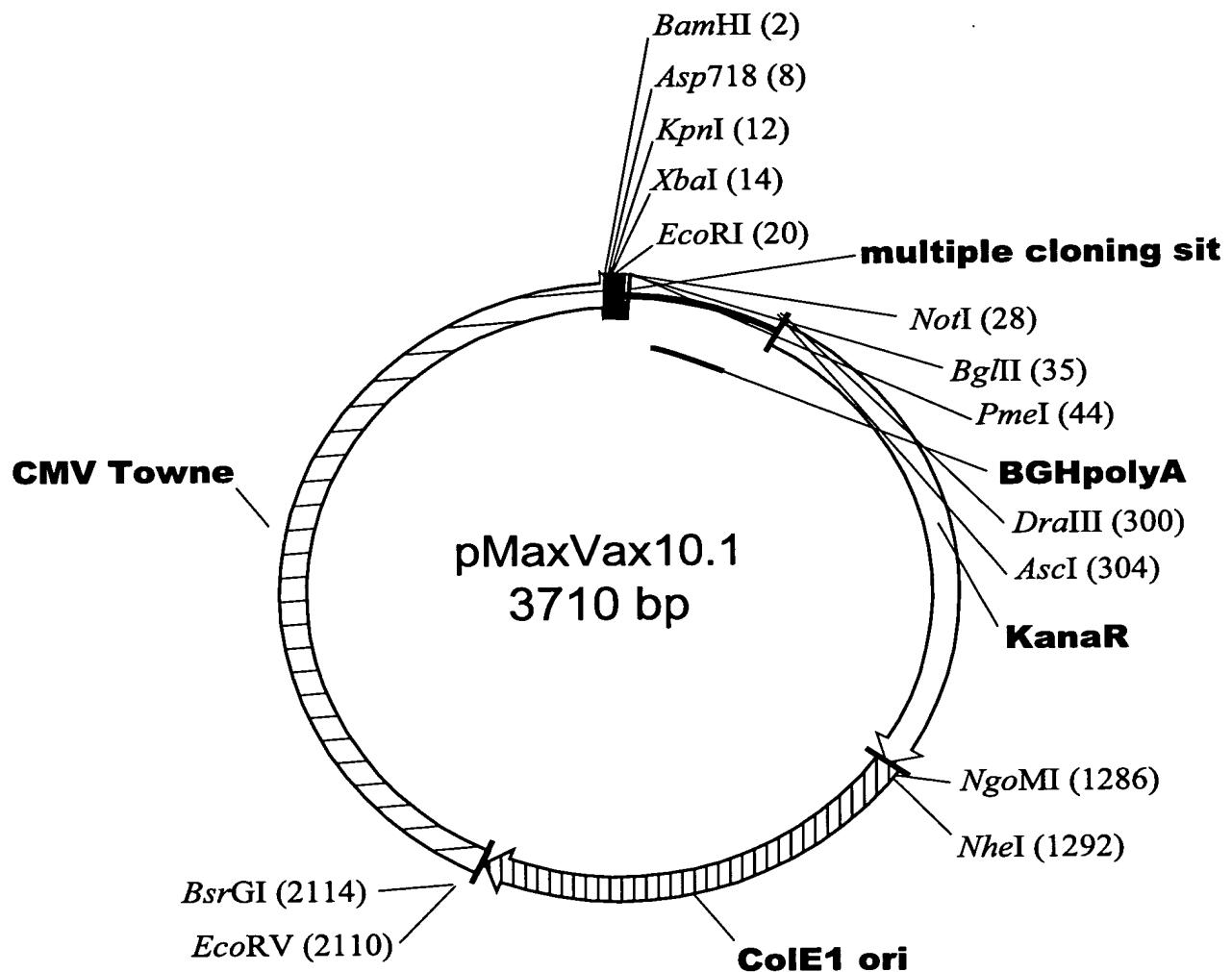


Fig. 21

Fig. 22A

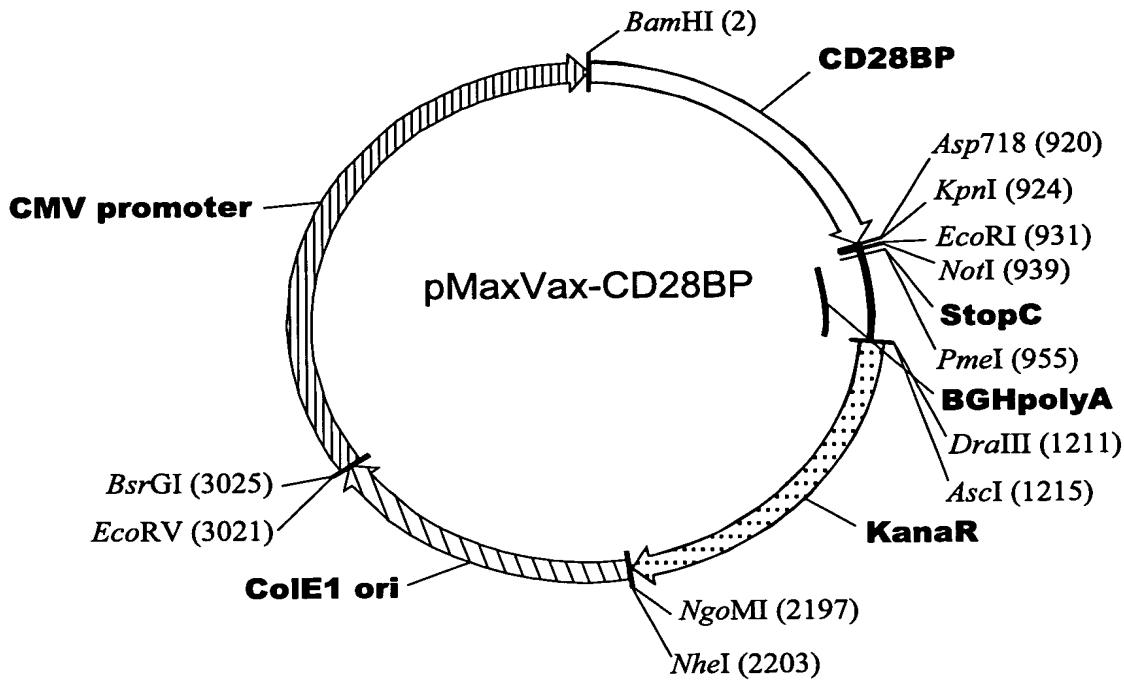
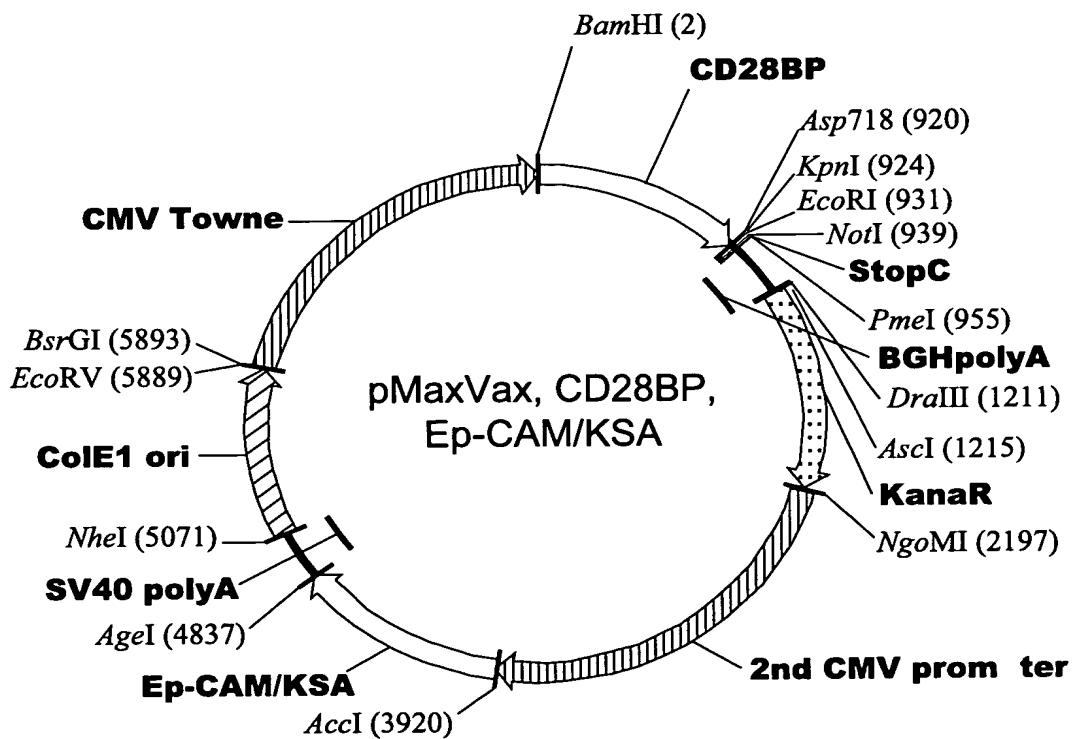


Fig. 22B



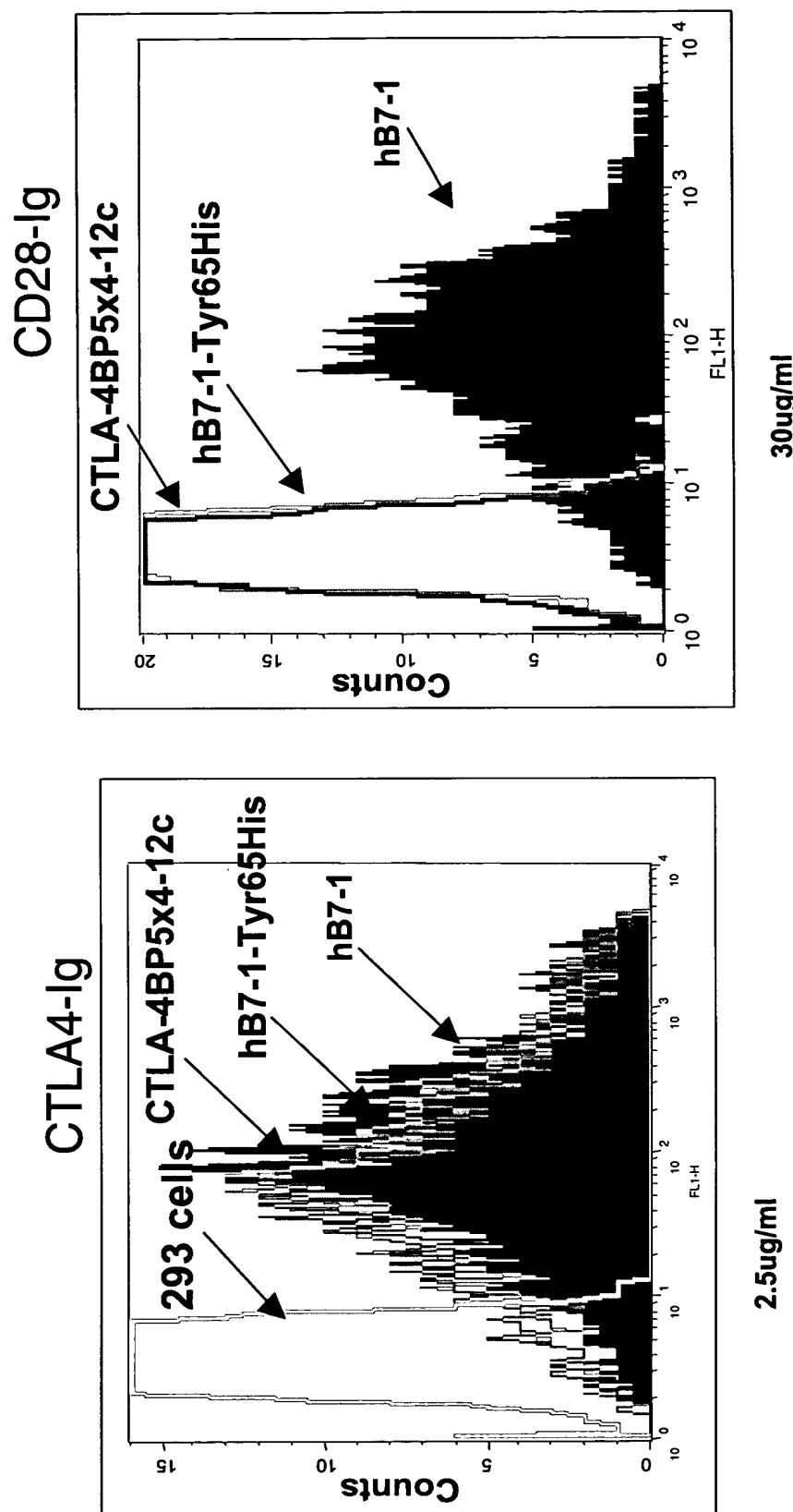


Fig. 23A

Fig. 23B

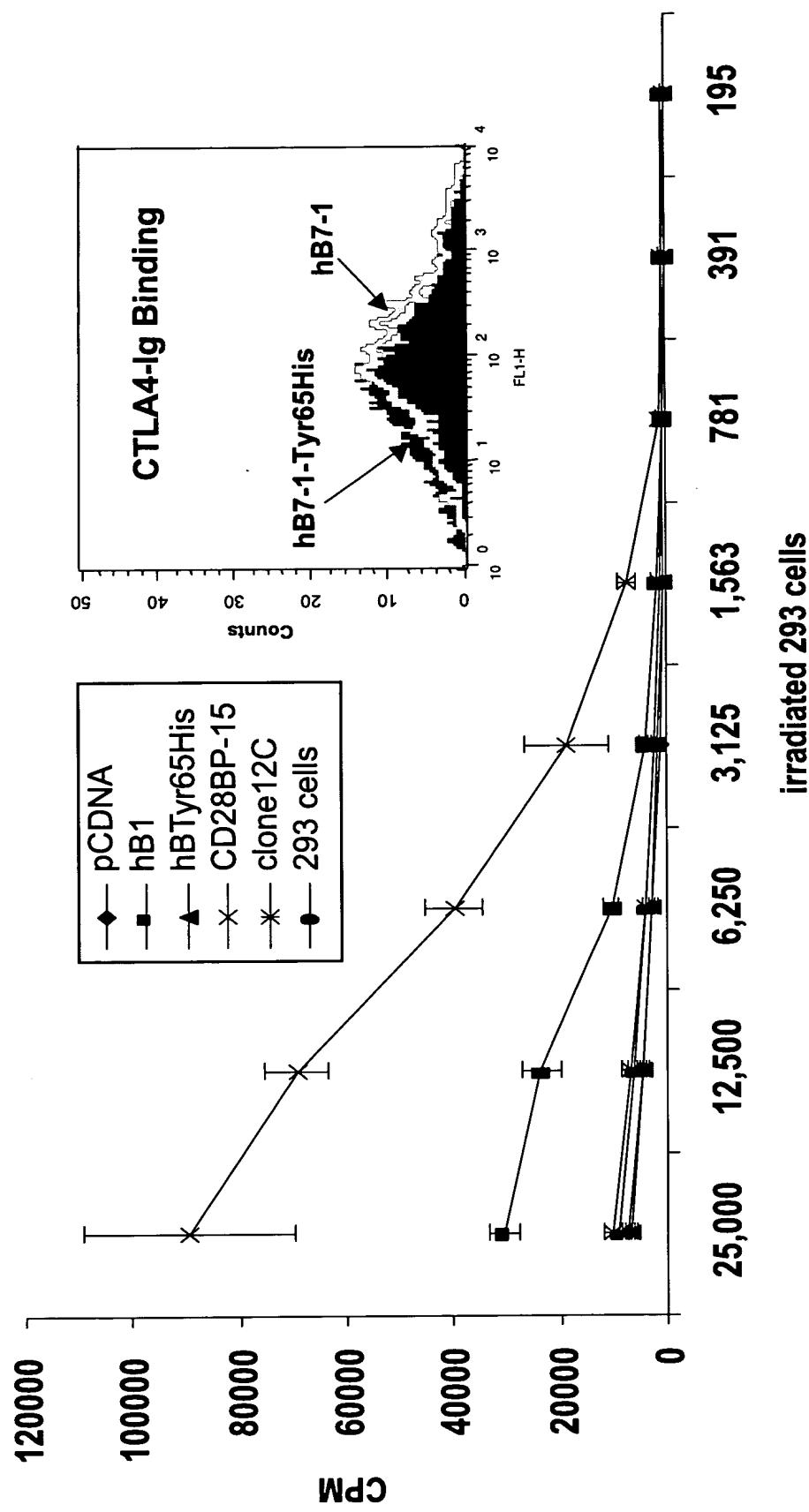


Fig. 24

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Fig. 25A

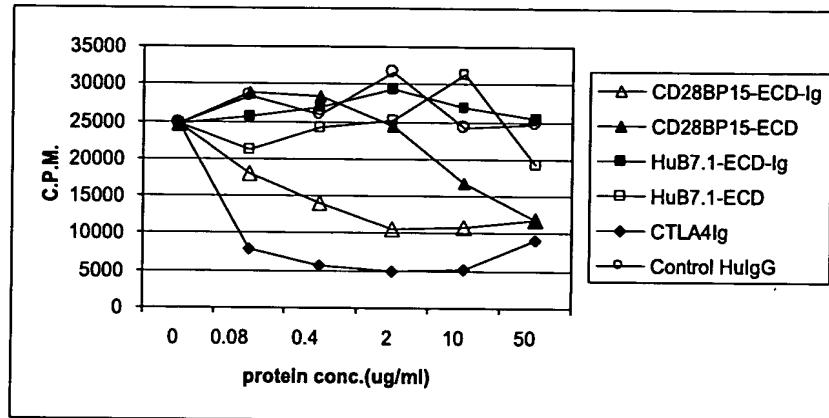


Fig. 25B

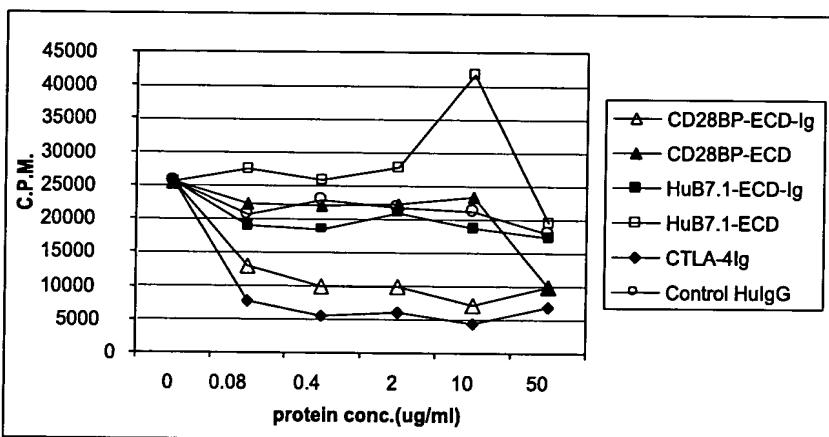


Fig. 25C

